

Vermiculite Expansion Facilities Investigation Region 10

INTRODUCTION

In November 1999 the Seattle Post-Intelligencer published a series of articles about asbestos contamination from a vermiculite mine in Libby, Montana. This mine had been operated by W.R. Grace and Company from 1963 to 1990. Subsequent articles examined asbestos contamination at vermiculite processing facilities around the country. In response to the concerns raised by these articles, EPA developed a list of facilities that are believed to have received and processed vermiculite from the Libby mine. EPA regional offices initiated investigations to identify and evaluate the vermiculite expansion facilities in the United States which processed vermiculite ore from the Libby mine.

On January 27, 2000, the Investigations and Engineering Unit (IEU) of the Office of Environmental Assessment received a request from Monica Tonel, Site Assessment Manager, Office of Environmental Cleanup, to investigate the two former vermiculite processing facilities in Region 10 that were believed to have received and processed ore from the Libby mine. IEU was also asked to identify other sites where vermiculite from the Libby mine had been processed. The investigation was conducted by EPA investigators Jed Januch, and Keven McDermott.

LOCATIONS

The two facilities in Region 10 that were believed to have received and processed ore from the Libby mine were located at 1318 North Maple Street, Spokane, WA 99201 and 2303 North Harding Street, Portland, OR 97227. There were other addresses in the Seattle metropolitan area where W.R. Grace and Company stored or distributed expanded vermiculite products. These addresses are 2107 N. 34th Street, Seattle, WA 98103; 2830 & 2834 NW Market Street, Seattle, WA 98107; 2020 Airport Way South, Seattle, WA 98134; and 102 C Street SW, Auburn, WA 98001.

CORPORATE HISTORY

In Region 10 the predecessor company to W.R. Grace and Company was Vermiculite-Northwest, Inc., which was originally incorporated as Northwest Insulations Company on September 2, 1944, in Spokane, WA. The corporate name was changed to Vermiculite-Northwest, Inc. on December 23, 1950. The business of the corporation was listed as "processing and distributing vermiculite products"¹.

The address of the registered agent for Vermiculite-Northwest, Inc. was changed on

¹ Annual report dated July 7, 1967.



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several occasions. On October 30, 1964, the company relocated its business office to 912 Elliott Avenue West, Seattle, WA. The address for the registered agent was changed to 2020 Airport Way South, Seattle, WA, which was a combined office, warehouse and distribution center on March 29, 1965. On December 19, 1966, a special meeting of stockholders for Vermiculite-Northwest, Inc. was held at the W.R. Grace and Company headquarters. At that meeting W.R. Grace and Company was identified as a principal stockholder in Vermiculite-Northwest, Inc. During the stockholders meeting the articles of incorporation were amended to change the location and office of the registered agent for the corporation to 102 C Street SW, Auburn, WA. On May 9, 1969, Vermiculite-Northwest, Inc. filed a statement of intent to dissolve. The corporation was administratively dissolved on June 25, 1969.

VERMICULITE EXPANSION FACILITIES

1318 North Maple Street, Spokane, WA 99201

The vermiculite expansion facility and warehouse in Spokane operated from 1951 through 1973 under the ownership of Vermiculite- Northwest, Inc. and later W.R. Grace and Co. The facility was used to manufacture, package and store commercial vermiculite insulation. Most of the buildings that were used on the site still exist and are leased by a retail computer sales and repair shop, a lighting supply dealer, and a retail tire dealership.

The site is located on Parcel "B", Lots 1 through 6, Block 23 of the Chamberlains Addition in Spokane County. A copy of a section of the plat map is included in Attachment 1. The property was purchased by the Spokane County Engineers Office-Right of Way Department on January 20, 2000. A copy of the statutory warranty deed recorded in Spokane County on January 25, 2000, is included in Attachment 2. The previous owner of the property is (b) (6), who owns the Wilbert Vault Company located directly east of the site. (b) (6) currently leases the site from Spokane County to store concrete forms in part of the warehouse, and subleased the remainder of the property to the other tenants on the site.

(b) (6) said he purchased the property from (b) (6) in 1988. He did not know who owned the property prior to this. Before selling the property to Spokane County, (b) (6) hired a firm called Blue Ridge and Associates to conduct a Level I environmental study. A complete title search was not conducted on the site property because according to a former manager, both Vermiculite-Northwest, Inc., and W.R. Grace and Company leased the property when it was used as a vermiculite expansion facility.

Records from the Spokane County Assessor show the buildings, including the office

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space and warehouse were constructed between 1927 and 1940. Some paving was done on the property in 1977. A Spokane County Assessor fact sheet for this property is included in Attachment 3. A sketch of the property is included as Attachment 4.

The 1952-1953 Polk City Directory for Spokane shows Vermiculite-Northwest, Inc. was located at 1318 North Maple Street, Spokane, WA. The 1973 Polk City Directory for Spokane shows two companies at this address: W. R. Grace Co. and Construction Products and Noise Control of Spokane, Inc. The Spokane and Vicinity Telephone Directory for 1952 lists Vermiculite-Northwest, Inc. at N. 1318 Maple Street. The Pacific Northwest Bell Telephone Directory of Spokane for 1973 lists both Vermiculite Northwest, Inc., and the Zonolite Division of W. R. Grace and Company located at N. 1318 Maple sharing the same telephone number. This was the last listing for the company in the Spokane telephone directory. Copies of pages from the telephone directories are included in Attachment 5.

Interview Summaries

(b) (6)

Interview conducted by Keven McDermott on February 18, 2000.

(b) (6) telephoned EPA on February 18, 2000, to volunteer information about the vermiculite expansion facility that formerly operated at 1318 N. Maple St., Spokane, WA. (b) (6) said he worked at the facility for Vermiculite-Northwest, Inc. (VNI) for approximately one year around 1964 or 1965. While he worked for VNI, the bags of product were labeled Zonolite and listed W.R. Grace and Company as the manufacturer. He was told that the ore came from Libby, Montana.

As a laborer (b) (6) was involved in the entire operation of expanding vermiculite. (b) (6) said the ore was delivered to the plant by train, where it was shoveled into bins. He then shoveled the ore from the bins into a large funnel that would deliver the ore to the furnace, where it expanded or "popped". From the furnace the expanded ore passed through a blower that blew off the material that did not expand. The popped ore was then bagged, the bags were sewn shut, and the full bags were loaded onto boxcars or into trucks for delivery to distribution points.

According to (b) (6) there were always two people working at the plant at any given time. The plant operated 24 hours a day. (b) (6) said he was never told that the vermiculite ore was contaminated with asbestos. He was told to wear a dust mask when working near a cement mixer but not anywhere else in the plant. He was never provided a respirator with cartridges.

(b) (6) said dust fell inside the plant like ash from St. Helens, and he swept about an inch

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of dust from the floor every hour. "It was like the building rained dust." He wore a wide brimmed hat to keep the dust off his nose and from going down his shirt. He wore his own clothes at work and went home covered with dust. He was never encouraged to change clothes or shower at the plant before going home. His mother shook the dust from his clothes before washing them for him.

(b) (6) said the building had a ten foot stack or chimney above the building. He could see dust coming out the stack and blowing towards the homes several blocks away. (b) (6) said the wind pattern is generally from SW to NE, and he is concerned because his mother still lives within several blocks of the plant. (b) (6) believes the neighborhoods within the prevailing wind pattern near the plant were probably contaminated daily by the emissions from the plant when it was in operation. What bothers (b) (6) the most is knowing that the company was aware the vermiculite he and others handled was contaminated with asbestos and posed a serious health threat to the workers. The fact that the company knew this and didn't tell the workers makes him angry.

(b) (6) had a chest X-ray taken in April 1991. He provided a copy of the analysis which states, "...These findings are classical for asbestos exposure." The X-ray analysis is appended as Attachment 6.

(b) (6)

Interview conducted by Jed Januch on February 19, 2000.

(b) (6) provided information about the vermiculite expansion facility that formerly operated in at 1318 N. Maple St., Spokane, WA. (b) (6) said between 1944 and 1972 he worked at the facility for Northwest Insulations, Inc., Vermiculite-Northwest, Inc., and W.R. Grace and Company.

In the earlier years his mother managed the plant and he worked with other high school aged boys shoveling the vermiculite ore into the furnace and bagging the finished product. He also began fixing equipment on the site. He later became the supervisor responsible for the Spokane facility as well as the Portland facility where he worked from time to time helping repair equipment. The Portland facility was acquired in 1950 and had a bigger furnace and more warehouse space than Spokane. In 1972 he left Spokane to work for W. R. Grace and Company in California and has not been to the old plant site since returning to Spokane. It is his understanding W. R. Grace and Company closed the vermiculite expansion facility in Spokane in 1973.

According to (b) (6) the vermiculite concentrate was shipped into the Spokane facility

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by truck or railroad car and off loaded on the north side of the warehouse building. The material was shoveled into a 2000 degree expanding furnace where the concentrate would pop just like corn. The expanded vermiculite would go through a cooling shoot and rock separator. Then the vermiculite was run through a cyclone device which drives off the dust. Finally the product was bagged in paper bags which were sewn shut. Most of the vermiculite product produced at this facility was shipped to Washington, Idaho, Montana, and eastern Oregon.

(b) (6) stated that W. R. Grace and Company leased the Spokane expansion facility, and it may have belonged to the (b) (6) Estate. Another tenant that previously occupied the property was called Noise Control of Spokane, Inc. This company sold pipe covers and acoustic materials, which may have contained asbestos.

(b) (6) said at one time there were twelve employees who worked on the site including hourly laborers and some sales people. He stated he did not know many names but did remember (b) (6), a former company officer, and a person named (b) (6) who worked in sales. He also remembered (b) (6) who worked at the site for awhile. He also recalled the names of two employees that worked at the Portland facility, (b) (6), who are both deceased.

Site Visit Conducted by Jed Januch of EPA

"On February 18, 2000, at 12:30 PM I conducted a site visit at the former vermiculite expansion facility located at 1318 N. Maple Street in Spokane, Washington. I obtained consent to enter the property and make observations from (b) (6), the owner of Best Computer. (b) (6) escorted me through the office building and part of the warehouse he uses to store computer equipment and store displays. I did not observe any accumulations of dust or waste in the parts of the buildings I had access to.

(b) (6) pointed out that a former occupant of the building had done some renovation work in the warehouse where partitions were added to make separate work spaces. We observed some packages of new insulating material that was left behind. It was not a vermiculite type product.

The remainder of the warehouse and the other buildings are being leased by other tenants. I did not have permission to access these areas to make observations. I did discuss with (b) (6), the former owner and current lease holder for the property, the issue of access to the remainder of the property and he agreed it would be okay as long as someone calls him first." I did not take samples while at the site. There was snow on the ground at the time, and I did not see any material I suspected to be vermiculite or dust from vermiculite.

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2303 N. Harding Street, Portland, OR 97227

The vermiculite expansion facility located at 2302 N. Harding Street, Portland, Oregon, began operating in the 1950's under the ownership of Vermiculite-Northwest, Inc. The business was taken over by W.R. Grace and Company in the late 1960s, and continued to operate at the same address until 1996. This facility, like the one in Spokane, was used to manufacture, package and store commercial vermiculite insulation products. The Portland facility was located in a large building occupying the block between Harding Avenue and Randolph Avenue just northeast of the Willamette River and approximately two blocks south of the Freemont Bridge.

The legal description of the property is Lots 1 - 8, Block 72 Albina, in Portland, Multnomah County, Oregon. A copy of a plat map showing the location of the property is included in Attachment 7. The property is owned by (b) (6), President of City Liquidators, Inc. located at 823 SE Third in Portland, Oregon (503) 238-1367. (b) (6) has owned this property since March 1994, when he purchased it from the (b) (6) Trust. A copy of the Bargain and Sale Deed is included in Attachment 8. A title search on this property reveals several previous owners, but, W. R. Grace and Company and Vermiculite-Northwest, Inc. do not appear to be among them.

The 1950 Polk City Directory and the Portland telephone directory listed Northwest Insulations Co. at 2303 N. Harding. The 1952 directory shows that Vermiculite-Northwest, Inc. operated at this address. The 1968-1969 Portland telephone directory and the 1970 Polk City Directory list the Zonolite Division of W. R. Grace and Co. at the same address. In the 1978 Portland telephone directory the Zonolite Division of W. R. Grace and Co. was shown at 2303 North Harding. Copies of pages from the Polk City Directories and the telephone directory for Portland are included in Attachment 9.

Interview Summary

(b) (6)

Interview conducted by Keven McDermott on February 29, 2000.

(b) (6) worked at Vermiculite-Northwest, Inc. at 2302 N. Harding, Portland, OR, during 1950 and 1951. He performed various jobs at the plant, but spent much of his time shoveling vermiculite ore into a wheelbarrow, dumping the wheelbarrow into a hopper that fed into the furnace, and bagging the expanded vermiculite. According to (b) (6) he also mixed pure chrysotile asbestos fibers with the "fines" from the expanded vermiculite to make acoustical plaster. The pure asbestos was stored in the attic prior to use.

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(b) (6) said the vermiculite ore came from a mine in Libby, Montana. The plant received one full rail car every two or three weeks. At any given time there were generally 5,000 bags of processed vermiculite products stored pending distribution. The finished product was sold as "Zonolite" Insulation. Among other things it was used to insulate water heaters, as attic insulation, and packed around buried pipes to prevent freezing and cracking.

Six years ago (b) (6) said he was diagnosed as suffering from asbestosis. He said he was never told that the vermiculite ore contained asbestos. The expansion plant was always dusty, but he was never told to wear a dust mask or provided with a respirator. None of the employees showered before going home.

Site Visit Conducted by Jed Januch

"On March 2, 2000, at 8:30 AM, I conducted a site visit at the former vermiculite expansion facility located at 2303 N. Harding Avenue in Portland, Oregon. There are actually three addresses posted on the outside of the building but there are only two current tenants, Acme Scenic and Display, Inc., and Gronholm Manufacturing.

Acme Scenic and Display, Inc. makes sets for movies, television, and the theater, and occupies a majority of the building. There are three owners, (b) (6). They have five full time employees and up to forty part-time employees depending on the workload. (b) (6) stated they have been working at this location since approximately September 1996 and they moved in just as the former tenant, W. R. Grace and Co. was moving out. In fact he said the floors were still wet from when Grace moved out.

Both (b) (6) and (b) (6) stated they have had a lot of problems with dust falling from the rafters of the building when trains pass by creating vibration. They said some of the employees have complained because the dust falls onto wet paint and ruins their work.

(b) (6) gave me a tour of the building and allowed me to take photographs and collect samples. I observed an area behind his office where there was some insulation material in four small sections between wall framing. The material resembled grey colored mud and appeared to have been applied over wire similar to the way you might apply plaster.

I also observed a considerable amount of dust overhead on steel beams, ceiling rafters, and water pipes. The dust was fairly deep, up to a half inch in some areas, and appeared to be grey in color with a light sandy texture. In some areas the dust appeared to have gotten wet and had formed into clumps.

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At 10:30 AM, I visited (b) (6), the owner of Gronholm Manufacturing, which makes pine dressers and other furniture. (b) (6) stated he did not know anything about the previous tenants of the building and said he had never met or seen them. He has occupied the northeast section of the building since June 1996. He has never noticed problems involving dust from the previous tenants, however, he acknowledged he has created a fair amount of wood dust on his own.

I observed a fair amount of dust in this part of the building as well, but could not determine if the dust was left over from the vermiculite expansion process."

Sampling and Analysis of Dust and Product Remnants from this Site

"I collected three samples from the portion of the site leased by Acme Scenic and Display. One sample was of the insulation material I observed on the wall and the other two were dust samples, one off the top of a steel beam and the other off some wood frame on the west wall of the building.

The samples were assigned laboratory numbers 00094200-4202 and were delivered under chain of custody to a contract laboratory in Seattle called LAB/COR, Inc. for analysis by transmission electron microscopy (TEM). Duplicate samples were supplied to the EPA Manchester Environmental Laboratory for analysis by polarized light microscopy.

Using TEM analysis, sample 00094200, which consisted of dust taken from the surface of a steel beam overhead in the warehouse, was found to contain a total of 1.42 % asbestos (0.95 % actinolite and 0.47 % tremolite). Sample 00094201, which was the insulation material on the wall, contained a total of 2.09 % asbestos (1.90 % chrysotile and 0.19 % actinolite). Analysis of sample 00094202, which consisted of dust taken from the top surface of framing on the west wall, revealed a total of 0.59 % asbestos (0.39% actinolite and 0.20 % tremolite) .

Splits of samples 00094200-4202 analyzed at the EPA Manchester Environmental Laboratory did not reveal the presence of tremolite or actinolite asbestos, but did confirm the presence of chrysotile in sample 00094201 at 10-15 %. Copies of the analytical data from both LAB/COR, Inc. and the Manchester Environmental Laboratory are included in Attachment 10."

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OTHER INTERVIEW SUMMARIES

(b) (6)

Interview conducted by Keven McDermott on March 22, 2000.

(b) (6) said he was involved in the vermiculite business in the Seattle area beginning in 1950. He worked as a sales rep first for Vermiculite-Northwest, Inc. and later for W.R. Grace and Company, which took over Vermiculite-Northwest, Inc.

(b) (6) was adamant that vermiculite ore was never expanded in Seattle, only in Portland and Spokane. The last warehouse and distribution center for Vermiculite-Northwest, Inc. and W.R. Grace and Company in the Seattle area was located at 102 C Street Sw, Auburn, WA.

(b) (6) said this location was used as local headquarters and for storage and distribution of processed vermiculite, not as an expansion facility. According to (b) (6) the products stored in Auburn were in bags, and there was little chance that property would have become contaminated.

(b) (6), Walker Specialty Construction, P.O. Box 469, Snohomish, WA 98291.
(206) 361-8913. Interview conducted by Keven McDermott on March 20, 2000.

(b) (6) said he formerly worked with a company called Vertex that used expanded vermiculite to make various insulation products. One product consisted of one bag of cement and three bags of vermiculite mixed with water to make a spray-on insulation.

(b) (6) said Vertex obtained the vermiculite from expansion plants in either Portland, Oregon, or Spokane, Washington. The vermiculite ore processed at these two plants came from a W.R. Grace mine in Libby, Montana. (b) (6) said Vertex received three or four semi-truck loads of vermiculite per day. He and other employees of Vertex routinely mixed the vermiculite with other ingredients to make the insulation products. (b) (6) said he was not aware at the time that the Libby vermiculite was contaminated with asbestos. He said he did not wear a respirator or take other precautions when handling the vermiculite.

According to (b) (6) there was never an expansion plant in the Seattle area. The largest facility used by Vermiculite-Northwest, Inc. and/or W.R. Grace and Company was located at 102 C Street Sw, Auburn, WA. This building was used as office space and for storage of bagged vermiculite, but not as an expansion facility.

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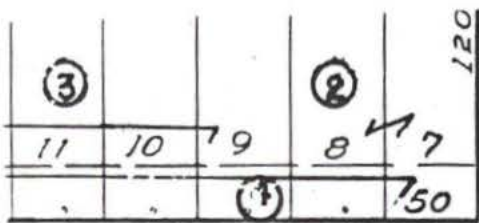
SUMMARY

- From 1944 through 1996 two vermiculite expansion facilities have been operated in Spokane and Portland by Northwest Insulations Inc., Vermiculite Northwest, Inc., and W. R. Grace and Company.
- Former employees of both the Spokane and Portland vermiculite expansion facilities have been diagnosed with asbestosis or asbestos related illness.
- A site visit at the former vermiculite expansion facility in Portland revealed a significant amount of dust and vermiculite debris in the rafters, beams, and pipes located overhead throughout the building.
- Microscopic analysis of the dust in the Portland facility revealed asbestos levels as high as 1.42 %.
- The Portland facility is currently occupied by two businesses. One of those businesses has received complaints from employees about dust from rafters falling onto them and their work projects.

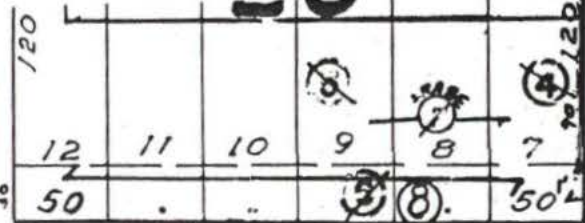
**Vermiculite Expansion Facilities Investigation
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ATTACHMENTS

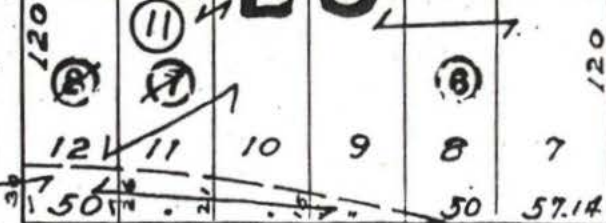
- Attachment 1** Plat map showing Parcel "B", Lots 1 through 6, Block 23 of the Chamberlains Addition in Spokane County, Washington.
- Attachment 2** Statutory warranty deed recorded in Spokane County on January 25, 2000, for property located at 1318 N. Maple Street, Spokane, WA.
- Attachment 3** Spokane County Assessor fact sheet for property located at 1318 N. Maple Street, Spokane, WA.
- Attachment 4** Sketch of property located at 1318 N. Maple Street, Spokane, WA.
- Attachment 5** Copies of pages from Polk Directories and Spokane telephone directories referring to property located at 1318 N. Maple Street, Spokane, WA.
- Attachment 6** Copy of findings of chest X-ray of (b) (6) taken in April 1991.
- Attachment 7** Plat map showing Lots 1 - 8, Block 72 Albina, in Portland, Multnomah County, Oregon.
- Attachment 8** A copy of the Bargain and Sale Deed for the property located at 2303 N. Harding Street, Portland, OR.
- Attachment 9** Copies of pages from the Polk City Directories and the telephone directory for Portland, Oregon, referring to property located at 2303 N. Harding Street, Portland, OR.
- Attachment 10** Copies of the analytical data for samples taken from 2303 N. Harding Street, Portland, OR, from LAB/COR, Inc. and the Manchester Environmental Laboratory.



STH



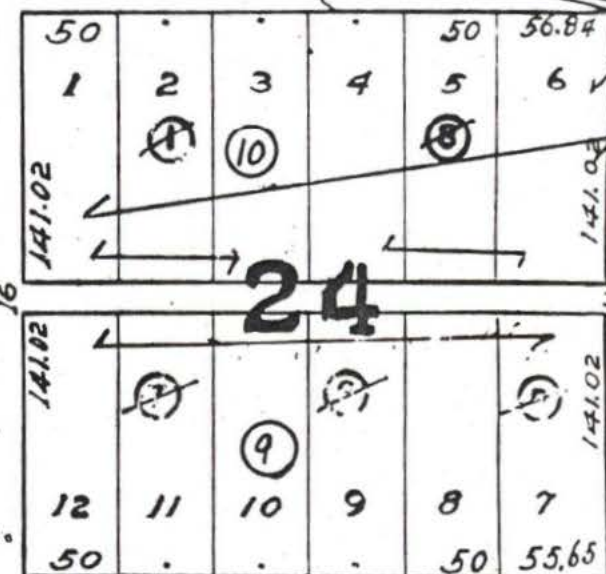
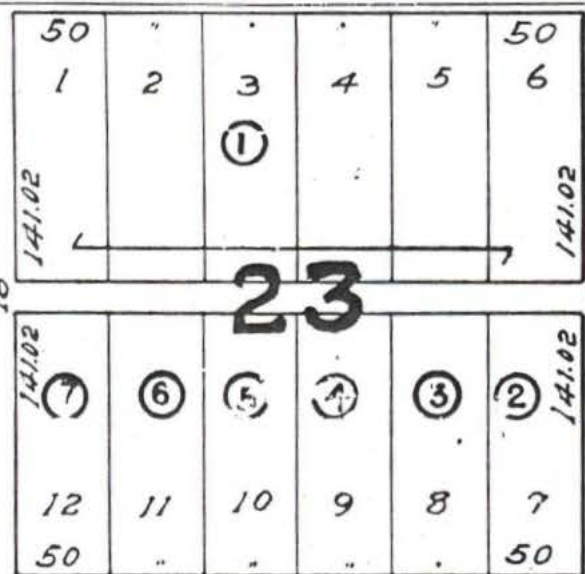
STR



Sinto Ave

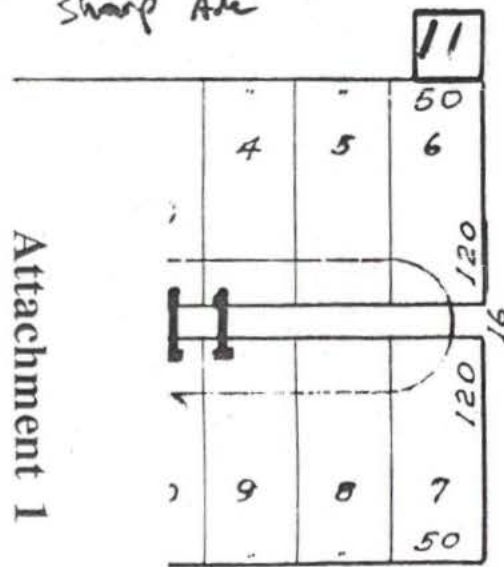
Scotch Lake Shops Eastern Railway

AVENUE



STREET

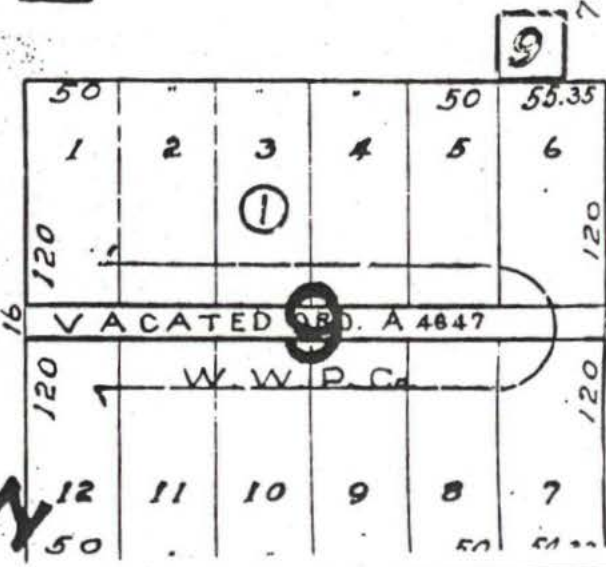
Sharp Ave



Maple Street



WALNUT STREET



Attachment 1

100,000

VACATED ORD. A 4847

W.W.P.C.

AFTER RECORDING MAIL TO:
Spokane County Attention: Bill Johns
1026 West Broadway
Spokane, Wa. 99206



4450579
Page: 1 of 5
01/25/2000 02:03P
Spokane Co, WA

Filed for Record at Request of
FIRST AMERICAN TITLE
Escrow Number: 12012-RES1

Statutory Warranty Deed

Grantor(s): (b) (6)
Grantee(s): Spokane County Engineers Office-Right of Way Dept., a Political subdivision of the State of Washington
Abbreviated Legal: Blks. 23, 24, 25 & 26, Chamberlin's Add. and Blk. 12, Bingaman's Add.
Additional legal(s) on page: Five
Assessor's Tax Parcel Number(s): 25131.2410

140-239-VC
THE GRANTOR (b) (6) (b) (6)
for and in consideration of VALUABLE CONSIDERATION
in hand paid, conveys and warrants to Spokane County Engineers Office-Right of Way Dept., a Political
subdivision of the State of Washington
the following described real estate, situated in the County of Spokane, State of Washington:

See (b) (6)
Da (b) (6)
By (b) (6) By _____
By (b) (6) By _____
STATE OF WASHINGTON)
County of SPOKANE) SS:

I certify that I know or have satisfactory evidence that (b) (6)
are the person s who appeared before me, and said person s acknowledged that they
signed this instrument and acknowledge it to be their free and voluntary act for the uses and purposes
mentioned in this instrument.

Dated: January 24 2000



Janna Blair
Janna Blair
Notary Public in and for the State of WASHINGTON
Residing at Spokane Cheney
My appointment expires: 9/26/02

01/25/2000 CBG

\$55,180.00 200001071



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Spokane Co. WA

LEGAL DESCRIPTION

page 5

PARCEL "A":

Lots 1, through 6, Block 23, CHAMBERLIN'S ADDITION, according to plat recorded in Volume "A" of Plats, Page 11, in the City of Spokane, Spokane County, Washington.

TOGETHER WITH the South half of vacated Sinto Avenue North of and adjoining said Lots 1 through 6, pursuant to Ordinance C30502 recorded December 14, 1992 under Recording No. 9212140097;

TOGETHER WITH the West half of vacated Walnut Street East of and adjoining said Lot 6 and said portion of vacated Sinto Avenue, pursuant to Ordinance C30502, recorded December 14, 1992 under Recording No. 9212140097.

PARCEL "B":

Lots 1 through 6, Block 24, CHAMBERLIN'S ADDITION, according to plat recorded in Volume "A" of Plats, Page 11, in the City of Spokane, Spokane County, Washington;

TOGETHER WITH three foot portion of vacated Cedar Street East of and adjoining said Lot 6;

TOGETHER WITH the South half of vacated Sinto Avenue North of and adjoining said Lots 1 through 6, pursuant to Ordinance C30502 recorded December 14, 1992 under Recording No. 9212140097;

TOGETHER WITH the East half of vacated Walnut Street West of and adjoining said Lot 1 and said portion of vacated Sinto Avenue, pursuant to Ordinance C30502 recorded December 14, 1992 under Recording No. 9212140097;

TOGETHER WITH the North half of vacated alley South of and adjoining said Lots 1 through 6, pursuant to Ordinance C-30502, recorded December 14, 1992 under Recording No. 9212140097.

PARCEL "C":

Lots 7 through 12, Block 24, CHAMBERLIN'S ADDITION, according to plat recorded in Volume "A" of Plats, Page 11, in the City of Spokane, Spokane County, Washington;

TOGETHER WITH the South half of vacated alley North of and adjoining said Lots 7 through 12, pursuant to Ordinance C-30502, recorded December 14, 1992 under Recording No. 9212140097.

PARCEL "D":

Lots 7 through 12, Block 25, CHAMBERLIN'S ADDITION, according to plat recorded in Volume "A" of Plats, Page 11, in the City of Spokane, Spokane County, Washington;

TOGETHER WITH the North half of vacated Sinto Avenue South of and adjoining said Lots 7 through 12, pursuant to Ordinance C30502 recorded December 14, 1992 under Recording No. 9212140097;

TOGETHER WITH the East half of vacated Walnut Street West of and adjoining said Lot 12 and said portion of vacated Sinto Avenue, pursuant to Ordinance C30502, recorded December 14, 1992 under Recording No. 9212140097.

PARCEL "E":

Lots 1 through 12, Block 26, CHAMBERLIN'S ADDITION, according to plat recorded in Volume "A" of Plats, Page 11, in the City of Spokane, Spokane County, Washington;

TOGETHER WITH the vacated alley in said Block 26 which, upon vacation, attached to said property by operation of law;

TOGETHER WITH the North half of vacated Sinto Avenue South of and adjoining Lots 7 through 12 in said Block 26, pursuant to Ordinance C30502, recorded December 14, 1992 under Recording No. 9212140097;

TOGETHER WITH the West half of vacated Walnut Street East of and adjoining said Lot 7 and said portion of vacated Sinto Avenue, pursuant to Ordinance C30502, recorded December 14, 1992 under Recording No. 9212140097.

PARCEL "F":

Lot 1, 4, 5, 6, 7, 8, 9 and 10, Block 12, BINGAMAN'S ADDITION TO SPOKANE, according to plat recorded in Volume "A" of Plats, Page 27, in the City of Spokane, Spokane County, Washington.



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Page: 3 of 5
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Spokane Co, WA

Exhibit A

ITEMS OF RECORD WHICH WILL REMAIN ON TITLE:

Liability, if any, for general taxes on any portion of said premises not currently being carried on the Spokane County Tax Rolls.

Affects: Vacated Sinto Ave.; vacated Walnut St.; vacated alley in 'Block 24 of Chamberlin's Add.

Assessment for:	City of Spokane
Annual Amount:	\$1,798.91
Original Number of Installments:	10
Number of Remaining Installments	9
Local Improvement District No.:	95187
Tax Account No.:	35182.2806

Assessment for:	City of Spokane
Annual Amount:	\$2,629.77
Original Number of Installments:	10
Number of Remaining Installments	9
Local Improvement District No.:	95187
Tax Account No.:	35182.2807

Assessment for:	City of Spokane
Annual Amount:	\$3,096.57
Original Number of Installments:	10
Number of Remaining Installments	9
Local Improvement District No.:	95187
Tax Account No.:	35182.2808

Assessment for:	City of Spokane
Annual Amount:	\$10,471.59
Original Number of Installments:	10
Number of Remaining Installments	9
Local Improvement District No.:	95187
Tax Account No.:	35182.2809

Assessment for:	City of Spokane
Annual Amount:	\$397.76
Original Number of Installments:	10
Number of Remaining Installments	9
Local Improvement District No.:	95187
Tax Account No.:	35182.2810

Reservation of easement for the maintenance of Washington Water Power facilities as provided for in City Council Resolution under Ordinance No. 16506.

Affects: Vacated alley in Parcel E

Agreement regarding private road crossing agreement dated May 28, 1928, recorded August 27, 1928, as No. 952104

Affects: Parcel A

Unrecorded GN Lease No. 233668, and the terms, provisions and conditions thereof, as disclosed by Quit Claim Deed recorded April 24, 1987, under Recording No. 8704240219.

Affects: Portion of Parcels D and E



4450579
Page: 4 of 5
01/25/2000 02:03P
Spokane Co, WA

FIRST, AMERICAN TITLE INS WD \$12.00

Exhibit A
Continued

ITEMS OF RECORD WHICH WILL REMAIN ON TITLE:

Unrecorded Lease and the terms and conditions thereof:

Lessor: Not disclosed
Lessee: Noise Control of Spokane, Inc.
Dated: Not disclosed
Term: Not disclosed
Disclosed By: Instrument recorded under Recording No. 8712110175
Affects: Parcel A

An unobstructed easement is reserved and retained over and through the entire vacated area for existing and future utility services of U.S. West Communications, Washington Water Power Company, Cox Cable Spokane and the City of Spokane, and no building or other structure shall be erected or placed thereon without the prior written approval of the Director of Public Works, as disclosed by Ordinance No. C-30502 recorded December 14, 1992 under Recording No. 9212140097.

Affects: Vacated streets and alleys

Reservations and/or Exceptions contained in instrument: (Affects Parcel F)

From: Quit Claim Deed
Recorded: April 14, 1993
Recording No.: 9304140227
As follows: Excepting and Reserving, however, unto said Grantor, its successors and assigns, all of the coal, oil, gas, casinghead gas and all ores and minerals of every kind and nature, including sand and gravel, underlying the surface of the premises herein conveyed, together with the full right, privilege and license at any and all times to explore, or drill for and to protect, conserve, mine, take, remove and market any and all such products in any manner which will not damage structures on the surface of the premises herein conveyed, together with the right of access at all times to exercise said rights.

Easement, including terms and provisions contained therein:

Recorded: May 9, 1996
Recording No.: 9605090077
In favor of: The Washington Water Power Company, a corporation
For: The right to install a natural gas service
Affects: Parcel A

Our inspection disclosed power poles and lines.
Affects: Parcel C

Deed of Trust and the terms and conditions thereof:

Grantor: (b) (6)
Trustee: Transnation Title Insurance Company
Beneficiary: First Interstate Bank of Washington, N.A.
Original Amount: \$1,252,500.00
Dated: March 25, 1996
Recorded: April 3, 1996
Recording No.: 9604030369
Volume/Page: 1845/1144



4450579
Page: 5 of 5
01/25/2000 C2:GSP
Spokane Co, WA

Exhibit A
Continued

ITEMS OF RECORD WHICH WILL REMAIN ON TITLE:

Assignment of Lessor's Interest in Leases and Rents and the Terms and Conditions thereof:

Assignor: (b) (6), (b) (6)
Assignee: First Interstate Bank of Washington, N.A., a national banking
association
Dated: March 25, 1996
Recorded: April 3, 1996
Recording No.: 9604030370

Financing Statement

Debtor: (b) (6)
Creditor: First Interstate Bank of Washington, N.A.
For: Goods to become fixtures
Recorded: April 5, 1996
Recording No.: 9604050383
UCC No.: 208923

Lease and the Terms and Conditions Thereof

Lessor: (b) (6)
Lessee: Fremont Outdoor Advertising
Term: 10 years commencing 6/01/97
Dated: April 2, 1997
Recorded: May 1, 1997
Recording No.: 4099142
Affects: Lots 1 thru 6 Blk 26 (A portion of Parcel E)

Fact Sheet for Property Number 25131.2301

Report1

Data As of 02/12/2000

Site Address	1318 N MAPLE ST	TCA	0010	Parcel Status	Active
Owner	(b) (6)	Taxpayer	(b) (6)		
Owner Address	(b) (6)	Taxpayer Address	(b) (6)		
	SPOKANE, WA 99201-2707		SPOKANE, WA 99201-2707		
Acreage		Final Asmt	246700	Land Value	112800
Land Sq Feet	42306	Exempt Value		Buildings Value	133900
Current Use Code	61 Service - Finance				

Active Exemption

Legal Description

CHAMBERLIN ADD L1TO6B23

Sales

Sale Date	Sale Price	Sale Instrument	Excise Number
01/20/2000	3,100,000.00	Statutory Warranty Deed	200001071

Sales History (prior to 1999)

Sale Date	Sale Price	Sale Instrument	Qualified/ Unqualified	Vacant/ Improved	Transfer	Verification
04/29/1977	\$90,000.00	CONVERTED FROM SCM	Unqualified	Improved	COMMERCIAL	VERIFIED

Improvements

Improvement ID	Improvement Type	Improvement Description	Year Built	Size	Unit of Measure
C	Commercial	General Office	1927	2104	SF
C	Commercial	Storage Warehouse	1928	21116	SF
01	Other	General Purpose Bldg x Other	1946	1452	SF
02	Other	Residential Detached Garage	1940	480	SF
03	Other	Paving	1977	15000	SF

Fact Sheet for Property Number 25131.2301

Report1

Data As of 02/12/2000

04	Other	Fencing - Chain Link	1977	150	LF
05	Other	Fuel Oil Tank	1977	1	IT

Search Criteria

Property No.

251 31.2301

Tax Year

1993

Clear

Effective Date

01/01/1993

Search

Summary

Partes

Values

Taxes

Events

Receipts


Other

[illegible][Print Property Summary](#)


Close

Help...

Record: 12625 of 13308



Start

 SN...

 Micr...

 PAD...

Asc...

Asc...

Pro...



11:10 AM

Party/Property Involvement Zoom

File File Edit Help

Search Criteria

Property Type

☐ Real
☐ Personal
☒ All

Property

Property No. Alt. Prop. No.
 Situs Address
 City

Clear

Search

Party Type

☐ Person
☐ Organization
☐ Mortgage Co.
☒ All

Party

Name
 Address
 City
 Cust. Acct. No. Party Number

Scope

☒ Current only
☐ All

Search Results

	Party Name	Property No.	Alt. Prop. No.	Role (Relationship)	Party Address
	(b) (6)	25131.2301		Owner	(b) (6)
	(b) (6)	25131.2301		Taxpayer	(b) (6)
Ret	NBS LAMP SUPPLY	70.310006		Owner	1212 N POST ST #8, SPOKANE, WA
Size	NBS LAMP SUPPLY	70.310006		Taxpayer	1212 N POST ST B, SPOKANE, WA 9
TCA					
Last					



Spokane County
Office of the Assessor

Real Property Summary

Parcel: 25131.2301 Situs Address: 1318 N MAPLE ST Size: 42306 Square Feet
Located On: SPOKANE, WA
TCA: 0010
Legal: CHAMBERLIN ADD
L1T06B23

Parties:

Role	Name & Address
------	----------------

Owner

(b) (6)

Taxpayer

(b) (6)

Property Values

Tax Year	Assessed			Total	Market		
	Land	Improvements	New Construction		Land	Improvements	Total
2000	\$112,800.00	\$133,900.00	0	\$246,700.00	\$112,800.00	\$133,900.00	\$246,700.00
1999	\$112,800.00	\$133,900.00	0	\$246,700.00	\$112,800.00	\$133,900.00	\$246,700.00
1998	\$112,800.00	\$128,900.00	0	\$241,700.00	\$112,800.00	\$128,900.00	\$241,700.00
1997	\$112,800.00	\$129,200.00	0	\$242,000.00	\$112,800.00	\$129,200.00	\$242,000.00
1996	\$112,800.00	\$107,700.00	0	\$220,500.00	\$112,800.00	\$107,700.00	\$220,500.00
1995	\$112,800.00	\$126,100.00	0	\$238,900.00	\$112,800.00	\$126,100.00	\$238,900.00

NBS Lamp Supply

Maxwell St.

7-11

Nickel
Niks

Quanset Hot

Genesis Granite

Concrete Products

Hill



Wilbert Vault Company

Warehouse

leased to
lighting
company

stored
Forms

Best
computer
office

1318

Garage

1314

Fence

Concrete
Products

Maple St.

DSHS

Former Vermiculite Expansion Facility

Spokane, Washington

Map Not to Scale

J. Januch

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Four Seasons Insulation Co
Spokane Industrial Park-----924-9911
(Please See Advertisement This Page)
Galloway J W Co N1901 Madison-----489-4840

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APPLICATORS & ENGINEERS

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Insulations & Acousticals Inc
E127 Augusta ----- 325-1802
Specialty Insulation Co
E18921 Nixon Greenacres ----- 924-6766
(Please See Advertisement This Page)
THERMOGUARD INSULATION CO
E8207 Trent ----- 924-5000
(Please See Advertisement Page 332)

► Insulation Contractors' Equipment & Supplies

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Residence ----- 327-2211
Residence ----- 327-4634

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E8207 Trent ----- 924-5000

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BARTELLS E J CO
N1206 Thierman Rd ----- 928-0313

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BRANCH OFFICE

OWENS CORNING FIBERGLAS CORP
N3808 Sullivan Rd ----- 924-6532

DISTRIBUTORS

ELLIOTT BAY LUMBER CO
E2928 Boone ----- 534-1525
THERMOGUARD INSULATION CO
E8207 Trent ----- 924-5000

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Branch Office N3808 Sullivan Rd-----924-6532
Construction Service Division
Spokane Industrial Pk-----924-6011
Owens-Corning Fiberglas Supply Div
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Peoples Lumber Co Inc E1907 Francis---483-8504

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2201 N Duncan Dr Wenatchee---663-7101
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W30 International Wy-----328-5020
THERMOGUARD INSULATION CO
E8207 Trent ----- 924-5000

THERMO FABRICATORS
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Ferrel Lumber Co N3220 Divisn--FA 8-2030

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W1104 Garland--FA 5-0443
HANKS I B & ASSOCIATES

2120 Northwest Blvd--FA 5-4111
HOME BUILDING MATERIALS INC

E3107 Trent--KE 4-2671
MONROE STREET LUMBER CO

N1126 Monroe--FA 8-1600
OLSON E C LUMBER CO

N816 Cincinnati--HU 7-1646
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(Continued Next Page)

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(See Advertisement This Page)

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(See Advertisement This Page)

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Thermosave Insulation N 1017 Wash..BR dway-1166

(See Advertisement Opposite Page)

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(See Advertisement Opposite Page)

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N 222 Divisn.MA in-9211

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(Continued Next Page)

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Insulation Materials—Cold & Heat— (Cont'd)

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OLSON E C LUMBER CO

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ROCK WOOL—

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N 6623 Divisn. GL enwd-2759

SMITH & MOORE SAWDUST CO

Yardley. KE ystne-9665

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(See Advertisement Page 151)

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Vermiculite-Northwest Inc

N 1318 Maple.....FA irfax-2541

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your apron black, touch up the bands
with colorless lacquer. If you can't get
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Insulation Materials—Cold & Heat— (Cont'd)

ZONOLITE

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MANUFACTURER

Vermiculite-Northwest Inc
Formerly Northwest Insulations Co
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Boyer Warren Lumber Co

E 7413 Trent. WA Inut-2613

Country Homes Supply

N Divisn & Newport Hy. GL nwd-2244

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W 1004 Garlnd. FA irfax-0443

HANKS I B & ASSOCIATES

2120 Northwest Blvd.....FA irfax-4111

HOME LUMBER CO

E 2901 Trent. KE ystne-2671

Lincoln Heights Building Supply

E 2810-29th. KE ystne-7720

MADISON LUMBER & MILL COMPANY

E 11919 Sprague Opportunity. WA Inut-1229

NEWTON LUMBER & FUEL CO

East Side E 3426 Sprague.....LA keww-4535

West Side N 1603 Belt.....EM pire-1579

OLSON E C LBR CO

N 816 Cincinnati. GL enwd-1646

Standard Lumber Co

City Retail Yard W 1515-3d.....RI vrside-2171

Dishman Yard Dishman.....WA Inut-1593

Insulation Materials—Electric

U S Insulation Co N 6623 Divisn.....GL enwd-2759

Insurance

ACCIDENT & CASUALTY INSURANCE

FIRE AUTOMOBILES
EXTENDED COMPREHENSIVE
COVERAGE COVERAGE



Practically all other forms of Property Insurance for
Business, Homes and their contents.

"WHERE TO BUY IT"

Hahn Lloyd Wash Trust Bldg.....MA in-3244

ADAMS INSURANCE AGENCY

HEALTH & ACCIDENT
HOSPITALIZATION PLAN

Also

AUTOMOBILE INSURANCE
LIFE & BURGLARY

N 1506 Monroe.....FA irfax-0718
If no answer call.....BR dway-1703

Adams Insurance Agency

N 1506. Monroe.....FA irfax-0718

ADAMS RALPH

Member Spokane Insurance Assn Inc

Hutton Bldg.....MA in-4268

ADAMS WILLIAM M

N 1506 Monroe.....FA irfax-0718

Aetna Casualty & Surety Co Claims Dept

Mohawk Bldg. MA disn-0105

AETNA CASUALTY & SURETY CO

INSURANCE—

ANTHONY BAKER & BURNS

General Agent

Mohawk Bldg.....RI vrside-6091

AETNA FIRE GROUP

Spokane Service Office Hutton Bldg. TE mple-2588

Main & Mail Dept Hutton Bldg.....MA in-1384

(Continued Next Page)

JONES & MITCHELL CO.

INSURANCE AND SURETY BONDS

A. S. BROWN
L. W. PILKEY

HUTTON BUILDING

AUTOMOBILE

FIRE

LLOYDS OF LONDON

ALL RISK

COVERAGES

MARINE

LIABILITY

BURGLARY

PHONE
**MA in
4268**

Spokane & Vicinity Telephone Directory June 1952



MODERN MEDICAL IMAGING

W. 508 6th • Suite A, Lower Level • Spokane, WA 99204 • (509) 838-6415

(b) (6)

Chest

Dr. Plastino

4-3-91

MSC

PA and lateral views of the chest show a normal transverse cardiac diameter and aorta. There are some faint linear and rounded parenchymal densities in the lungs, most of which are very tiny but with a tendency toward some conglomeration in a couple areas. Also some linear calcifications along the pleural margins on both side of the mediastinum and the lateral left chest as well as diaphragm leaf surfaces. These findings are classical for asbestos exposure. There is no active infiltrate identified. No abnormal masses.

CONCLUSION: FEATURES OF ASBESTOS EXPOSURE AND IDENTIFIED.
NO ACTIVE DISEASE IS IDENTIFIED.

VPH/bk

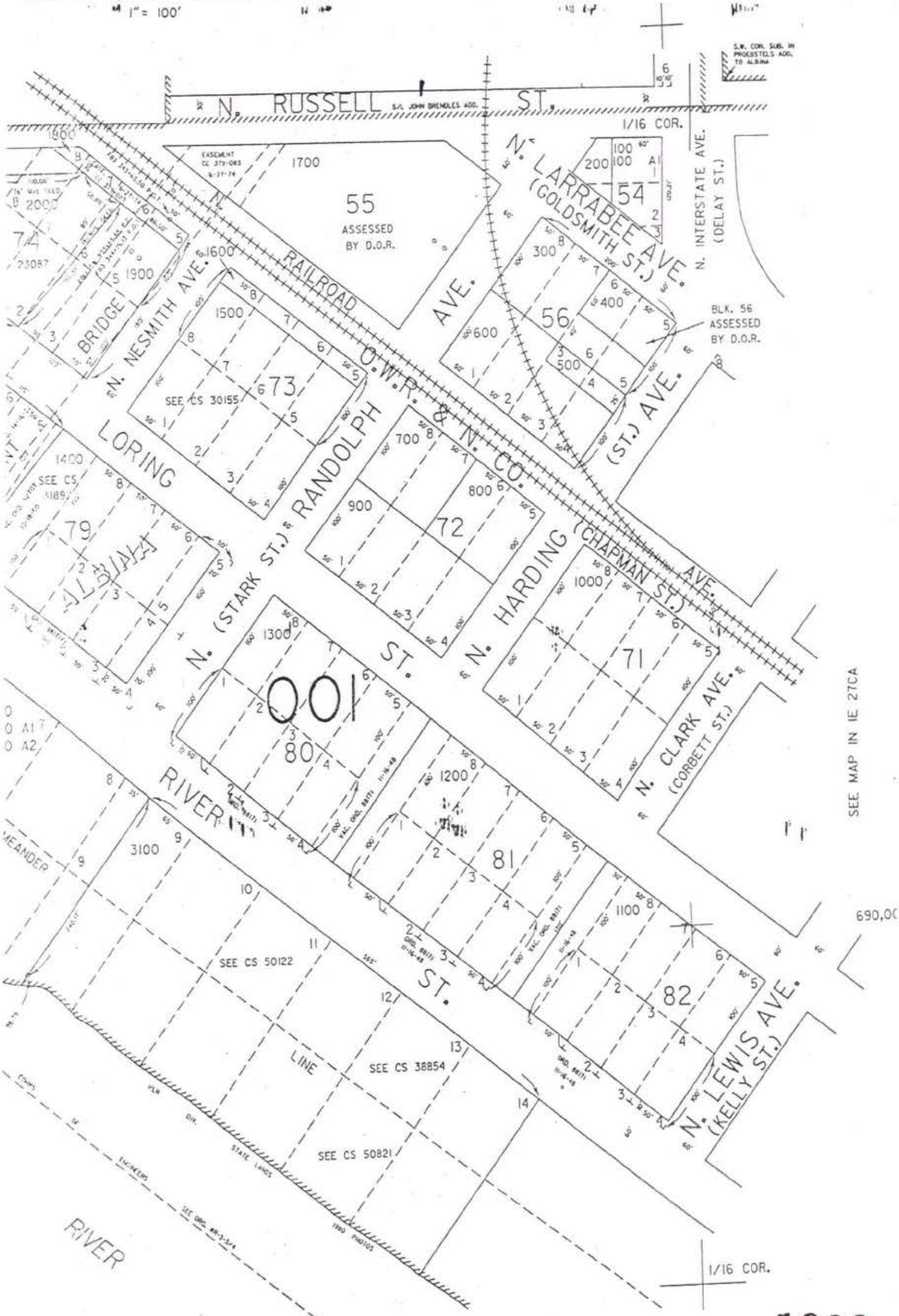
• Diagnostic Radiology • Fluoroscopy • Xeromammography • Ultrasound

Attachment 6

WI/4 SEC. 27 T.1N. R.1E. W.M.
MULTNOMAH COUNTY

IN IE 27CB
PORTLAND

1" = 100'



SEE MAP IN IE 27CC

Attachment 7

1999
IN IE 27CE

volume / page

date / time

94 043137

94 MAR 18 AM 10:27

PAGE 1 of 2

RECORDING SECTION
MULTNOMAH COUNTY

State of Oregon
County of Multnomah

I hereby certify that the attached
instrument was received and duly
recorded by me in Multnomah County
records:

Cindy Swick, Deputy

	RECORD	<u>5</u>
FEES -	SURVEY	<u>3</u>
	D.O.R.	<u>20</u>

MAR 1 1994

Attachment 8

BARGAIN AND SALE DEED

KNOW ALL MEN BY THESE PRESENTS, That (b) (6) Trustee U/T/A Dated October 7, 1981, as amended by Amendment No. 1 to Revocable Living Trust Agreement Dated October 29, 1981, hereinafter called grantor, for the consideration hereinafter stated, does hereby grant, bargain, sell and convey unto

(b) (6) hereinafter called grantee, and unto grantee's heirs, successors and assigns all of that certain real property with the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining, situated in the County of Multnomah, State of Oregon, described as follows, to-wit:

Lots 1, 2, 3, 4, 5, 6, 7 and 8, Block 72, ALBINA, in the City of Portland, County of Multnomah and State of Oregon

This property is subject to existing leases, zoning ordinances, covenants, conditions, restrictions, reservations, set back lines, powers of special districts and easements of record, if any. Grantee accepts the land, buildings, improvements and all other aspects of the Property in their present condition, AS IS, including latent defects, based upon his own examination, and without any representations or warranties, expressed or implied.

Tax Acct. No. 00961-6500, 00961-6540, 00961-6560

TICOR TITLE INSURANCE
77618562

(IF SPACE INSUFFICIENT, CONTINUE DESCRIPTION ON REVERSE SIDE)

To Have and to Hold the same unto the said grantee and grantee's heirs, successors and assigns forever.

The true and actual consideration paid for this transfer, stated in terms of dollars, is \$230,000

However, the actual consideration consists of or includes other property or value given or promised which is the whole consideration (indicate which) (The sentence between the symbols @, if not applicable, should be deleted. See ORS 93.030.)

In construing this deed and where the context so requires, the singular includes the plural and all grammatical changes shall be implied to make the provisions hereof apply equally to corporations and to individuals.

In Witness Whereof, the grantor has executed this instrument this 17th day of March, 1994; if a corporate grantor, it has caused its name to be signed and its seal affixed by an officer or other person duly authorized to do so by order of its board of directors.

THIS INSTRUMENT WILL NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND RULES AND BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES AND TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES AS DEFINED IN ORS 30.930

STATE OF OREGON, County of Multnomah, ss. This instrument was acknowledged before me on March 17, 1994.

(b) (6) This instrument was acknowledged before me on March 19, 1994.

by _____ as _____



[Signature]
Notary Public for Oregon
My commission expires 8-16-97

(b) (6) Trustee	
Grantor's Name and Address	
(b) (6)	97214
Grantor's Name and Address	
(b) (6)	97214
After recording return to (Name, Address, Zip):	
(b) (6)	97214
Until requested otherwise send all tax statements to (Name, Address, Zip):	
(b) (6)	97214

STATE OF OREGON, ss. County of _____

I certify that the within instrument was received for record on the _____ day of _____, 19____, at _____ o'clock _____ M., and recorded in book/reel/volume No. _____ on page _____ or as fee/file/instrument/microfilm/reception No. _____ Record of Deeds of said County.

Witness my hand and seal of County affixed.

NAME _____ TITLE _____

By _____ Deputy

2 94-43137

POLK'S BANKERS' ENCYCLOPEDIA

"The Unabridged Bank Directory of the World"

PUBLISHED IN MARCH AND SEPTEMBER — \$27.50 PER VOLUME

R. L. POLK & CO.

Fourth Avenue, North

Nashville 3, Tennessee

ICE—DEALERS

FUEL & ICE CO. 1703 NW 16th
Tel ATwater 9221 (See also Fuel Dept
Guide and left side lines)

ICE—MANUFACTURERS AND WHOLESALE

WILLIAMS ICE & COAL CO. 408 SE 79th
Tel KEenwood 7563
Western Ice & Cold Storage Co 73 SE

ICE CREAM CONE MANUFACTURERS

Kake Kone Co 1631 NE 41st av
and Pacific Cone Co 230 E Burnside

ICE CREAM DEALERS

also Confectionery—Retail
Circle Ice Cream 7505 NE Gilsan
Montavilla Ice Cream 8105 SE Stark
Ice Cream Shop 701 NE Alberta
Dairy Queen Stores 5135 SE Foster
130 N Lombard and 5418 SE 32d av
Ice Cream 425 NE Killingsworth
Ice Cream 6630 SE Millwaukie av
Ice Cream 5926 N Albina av
Ice Cream 5846 NE Sandy blvd
Ice Cream Store 3715 N Mississippi

Maid Stores 7332 NE Union av
Ice Cream Store 7310 N Philadelphia
Ice Cream Center 604 NW 21st av
The 3020 SE Foster rd
Ice Cream 4905 NE 42d av
Ice Cream Store 6435 NE Union av
Ice Cream 2221 SE Hawthorne blvd
Ice Cream 3513 SE 72d av
Ice Cream Store 539 SE 39th av
Ice Cream Store 8011 N Fessenden
Rite Ice Cream 4633 SE Woodstock

Freeze 3043 SE Belmont
Super Creamed Ice Cream 4726 SE
Ice Cream Co 2235 NE Sandy blvd
Ice Cream 140 NE 28th av
Ice Cream 6512 N Denver av
Ice Cream 1835 NE 33d av
Ice Cream 1205 NE Bway and
Ice Cream 2216 NE 32d av
Ice Cream Store 1429 N Portland blvd
Ice Cream Store 5705 SE Powell

Ice Cream Shop 6965 N Fessenden
Supercream Ice Cream 2522 NE
Dairy Queen Stores 3204 NE Bway and
Ice Creamery 5705 SE Stark
Tator Ice Cream 6838 SE Belmont
Ice Cream 4776 N Lombard
Ice Cream 5826 SE Foster rd
Ice Cream 1900 NE Killingsworth

ICE CREAM FREEZERS

MONROE DAIRY MACHINERY INC. 1600 SW
Harbor Drive, Tel ATwater 6461, 6462 and
(See also Dairy Supplies Dept Buyers' Guide)

ICE CREAM MANUFACTURERS

Ice Cream 2874a SE Powell blvd
Ice Cream 2 NE 3d av
Ice Cream 617 SE Main
Ice Cream Bowl 2015 NE Bway
ASCUS ICE CREAM CO. 3342 SE Morris-
ton, Tel EAST 2131 (See also Dairies Dept
Buyers' Guide and right bottom lines)

Ice Cream 927 SE Marion
Ice Cream Bowl 1914 E Burnside
Ice Cream Co 1010 SE 11th av
Ice Cream Co 2424 NE Bway
Ice Cream Co 20 N Knott
Ice Cream 2840 SE Powell blvd
Ice Cream 3224 SE 17th av
Ice Cream Corp 2424 SE 37th av
Ice Cream Co 4220 SE Hawthorne

N DAIRY INC. 715 SW 4th Av. Tel
water 2118

Ice Cream 7738 SE 13th av
BROOK FARMS MILK & ICE CREAM
3224 SE 37th Av. Tel Empire 4165

*ICE CREAM MANUFACTURERS'
EQUIPMENT AND SUPPLIES
MONROE DAIRY MACHINERY INC. 1600 SW
Harbor Drive, Tel ATwater 6461, 6462 and
6463 (See also Dairy Supplies Dept Buyers' Guide)

IMPORTERS

(See also Exporters)

Anzen Trading Co (food products) 211 NW
Davis
Balfour Guthrie & Co Ltd 733 SW Oak
China Tradeways Co 519 SW 3d av R718
Delbruck W C & Co Inc 2166 NW Wilson
Great China Trading Co (Oriental Gds) 1633
NE 42d av
Harkraft Corp (mdse) 320 SW Stark R424
Herman A J Co 1220 SW Morrison R537
Inter-Continental Trading Co Inc (gentl mdse)
329 SW 5th av R702
LaCantina Importers (food and wines) 501 SW
11th av
NEW ITALIAN IMPORTING CO (Olive Oil)
1537 SE Grand Av. Tel EAST 4126
Oregon Fireworks Co 223 NW 4th av
Pacific Coast Importers (fish products) 35
SW 1st av
Portico Corp 1220 SW Morrison R1100
West Coast Importing Co (food products) 1038
SW 1st av
West Coast Orient Co (lbr) 201 NW 2d av
Wintermute R L & Co 321 SW 4th av R404
Wong Joe (tea) 410 NW 9th av
Yuen Kel 410 NW 9th av

*INCANDESCENT LAMPS

BLAKE, MOFFITT & TOWNE. 17 SE 3d
Av. Tel EAST 6131

INCINERATORS

Doelefeld Incinerator Co 1904 N Killings-
worth

*INCOME TAX SPECIALISTS

TAX & AUDIT BUREAU. 302 SW 4th Av.
Tel ATwater 9388 (See also Real Estate
Dept Buyers' Guide and left side lines)

*INDUSTRIAL INSTRUMENTS

BROWN INSTRUMENTS DIVISION OF MIN-
NEAPOLIS-HONEYWELL REGULATOR
CO. 104 SE 7th Av. Tel VERmont 6646

*INDUSTRIAL LIQUIDATORS

DULLEN STEEL PRODUCTS INC OF WASH-
INGTON. 3190 NW Yeon Av. Tel BEacon
5320

*INDUSTRIAL PAPER

BLAKE, MOFFITT & TOWNE. 17 SE 3d Av.
Tel EAST 6131

INDUSTRIAL RELATIONS— COUNSELORS

Hay Danl 3200 NE Knott

INDUSTRIAL SUPPLIES— WHOLESALE

(See also Mill Supplies)

Ap-Black Equipment Co 1415 SE 5th av
Bayer Steel Products & Supply Co 1515 NW
Hwy
Hewitt Frank & Ed 6828 NE Halsay
Levenson Mfg Co 2579 NE Sandy blvd
Munnell & Sherrill Inc 400 SW 1st
Av. Tel ATwater 7365
Nexus J W Co 3005 NE Sandy blvd
Northwest Chains & Sprocket Inc 123 SW
Pine
Northwest Steel Co 935 NW 12th av
Oregon Boring & Supply Co 1515 SE Union av
Oregon Handling Equipment Co 123 NW
Oregon
P & G Supply Co 2262 N Albina av

INFORMATION BUREAUS

Anderson Construction Industries Service 4305
NE 10th pl
Business & Industry Information Bureau 1917 SW
Washington

PORTLAND CHAMBER OF COMMERCE. 824
SW 5th Av. Tel ATwater 9411 (See also
pages 2 and 3 Buyers' Guide)

Raw Materials Survey Inc 813 SW Alder R701
VISITORS INFORMATION CENTER (Dept of
Portland Chamber of Commerce) 1020 SW
Front Av. Tel ATwater 9411

INK MANUFACTURERS— PRINTERS

California Ink Co Inc 1205 NW Hoyt
Great Western Printing Ink Co 335 NW 11th
av
International Printing Ink Corp Ltd 537 NW
11th av
Leber Ralph Co 534 NW Couch
Sinclair & Valentine Co 317 NW Bway

INSECT POWDERS— MANUFACTURERS

Farm Service Corp 2166 NW Wilson
Kildew Co of Oregon 5043 SW Capitol hwy

*INSECTICIDES

PACIFIC INSECTICIDE COMPANY. 207 Park
Bldg. 729 SW Alder. Tel ATwater 1538.
After Hours Tel BEacon 6181

INSPECTION BUREAUS

Central Inspection Bureau 2142 NE 82d av
Hickox A M Inspection Service Inc 618 SW
5th av R701
HOOPER-HOLMES BUREAU THE. 211 Bur-
ton Bldg. 1739 NE 43d Av. Tel Webster
2727
Pacific Lumber Inspection Bureau Inc (Colum-
bia River District) 309 SW 22d av R1006
Saybolt E W & Co 3421 NE Gilsan
Trans-Continental Freight Bureau 217 SW Oak
R314
Underwriters Laboratories Inc 1123 SW 5th av
West Coast Bureau of Lumber Grades & In-
spection 8th fl 1410 SW Morrison

INSULATING MATERIALS

Bartells E J Co 524 N Thompson
Builders Insulating Co 569 E Burnside
Campbell Rock Wool Co 707 SE Belmont
CHAMBERLIN CO OF AMERICA. 1226 SW
Stark. Tel Broadway 2185
Cork Insulation Co Inc 425 SE Stark
Hill J G Co 1224 SW Morrison R597
Insulation Products Co 2069 E Burnside
Multnomah Insulating Co 411 SW Capitol
hwy
Mushet W E Co 444 N Thompson
Northwest Insulations Co 1001 N Harding av
Rock wool Insulating Co 1001 SE Alder
Weather Master Co 314 NE 42d av

*INSURANCE—ACCIDENT

JEWETT AGENCY THE. 1101 Weatherly
Bldg. 516 SE Morrison. Tel EAST 5858
PALLET, FISHER & CARLO INC. 1001 U S
National Bank Bldg. 309 SW 8th Av. Tel
ATwater 8431 (See also Insurance Dept Buy-
ers' Guide and right side lines)

*INSURANCE—ACCIDENT AND HEALTH

BOQUIST, CLARK & SWIVEL. 1210 U S
National Bank Bldg. 306 SW 8th Av. Tel
Capitol 1989 (See also Insurance Dept Buy-
ers' Guide and right side lines)
BUSINESS MEN'S ASSURANCE CO OF
AMERICA. 201 Pacific Bldg. 529 SW Yam-
hill. Tel BEacon 4705 (See also Insurance
Dept Buyers' Guide and right side lines)
COFFEY HARRY K & ASSOCIATES. 1001
SW 10th Av. Broadway 3491 (See also In-
surance Dept Buyers' Guide and right top
lines)
DOOLY & CO. 312 Board of Trade Bldg. 310
SW 4th Av. Tel ATwater 8311 (See also
Insurance Dept Buyers' Guide and right
top lines)
FIREMAN'S FUND GROUP. 400 Board of
Trade Bldg. 310 SW 4th Av. Tel ATwater
7407
GUARANTEE MUTUAL LIFE CO. 402 Pa-
cific Bldg. 520 SW Yamhill. Tel Capitol
1077 (See also Insurance Dept Buyers'
Guide)

MARSH & McLENNAN. 605 Equitable Bldg.
421 SW 6th Av. Tel Broadway 1141 (See
also Insurance Dept Buyers' Guide and
right side lines)

MASSACHUSETTS PROTECTIVE ASSN INC.
822 Corbett Bldg. 430 SW Morrison. Tel
ATwater 3826

OCCIDENTAL LIFE INSURANCE CO OF
CALIFORNIA. 409 American Bank Bldg. 621
SW Morrison. Tel BEacon 7118 (See also
Insurance Dept Buyers' Guide)

PAUL REVERE LIFE INSURANCE CO THE.
822 Corbett Bldg. 430 SW Morrison. Tel
ATwater 3826

POWELL, TAYLOR & HAYS. 330 American
Bank Bldg. 621 SW Morrison. Tel ATwater
1133

WELLS-REED INSURANCE. 412 Failing
Bldg. 618 SW 5th Av. Tel ATwater 7305
(See also Insurance Dept Buyers' Guide and
backbone)



DANCE
LESSONS



...the key to
more fun, more
popularity... is
better dancing.
And at Arthur
Murray's you
learn more
quickly, more
easily... and at
less cost. The
studio is open
from 10 a.m. to
10 p.m., so come
in today!

721 S.W. 11

Y to BUY-EASY to PAY
CREDIT IS EASY
WOOLACH WAY...



Yes... Easy terms on...
GOODYEAR tires, batteries
PHILCO and GE appliances!

Woolach
SANDY and S.E. 11th
S.W. 10th and ST

Attachment 9

1962 Polks Portland City Directory

ICE CREAM DEALERS—Contd
Ice Cream Center 1111 SW Montgomery
Ice Cream Hut 1700 SW Broadway
Ice Cream Hut 4005 NE 42d av
Jim's Ice Cream Store 6435 NE Union av
Lafayette Ice Cream Shop 2687 NW Thurman
Larry's Frozen Custard Shop 6238 NE Halsey
Lloyd's Ice Cream 811 N Killingsworth
Lund's Ice Cream Store 2011 N Fessenden
Maggie's Sundaes 3208 N Lombard
Milk Freeze 3042 SE Belmont
Milk Super Creamed Ice Cream 4726 SE Woodstock blvd
Milkmaid Ice Cream Parlor 1110 Main (Milw)
Milkmaid Ice Cream 8105 SE Stark
Morris Dairy Queen Store 3204 NE Broadway
Munden Ice Cream Co 2235 NE Sandy blvd
Nancy's Ice Cream 8324 SE 17th av
Pearson R V 6512 N Denver av
Polar King 1205 NE Broadway
Rocky Butte Ice Cream 2216 NE 82d av
Rose's Twenty Four Flavors Ice Cream 4441 NE Fremont
Sdams Ice Creamery 8232 N Jersey
Shamrock Ice Cream Store 5705 SE Powell blvd
Six Point Ice Cream Shop 7007 N Fessenden
Spears Dairy Queen Stores 622 SE 82d av
Target The 3256 NE Columbia blvd
Thompson's Twenty Four Flavors Ice Cream 3387 N Williams av
Top-O-Tabor Ice Cream 6838 SE Belmont
Trot & Piluso Ice Cream 1303 SE 6th av
Twenty Flavor Ice Cream Store 5826 SE Foster rd
Twenty Four Flavors Ice Cream Store 5922 NE Killingsworth
Twenty Four Flavors Made-rite Ice Cream 4539 SE Woodstock blvd
Verona Ice Cream 1900 NE Killingsworth
Wa-Mor Ice Cream 2221 SE Hawthorne blvd
White House Ice Creamery 8237 N Denver av
Young's 2739 E Burnside

ICE CREAM MANUFACTURERS

Alt Ice Cream 2874A SE Powell blvd
American Maid Ice Cream Co 2 NE 3d av
ARDEN FARMS CO, 617 SE Main, Tel East
Culligan's Ice Cream 1951 W Burnside
DAMASCUS ICE CREAM CO, 3342 SE Morrison,
Tel East 2131 (For further information see
page 44 Buyers' Guide)
Dart-Bellie Store 8071 N Columbia blvd
FROSKIST ICE CREAM CO, 1010 SE 11th Av,
Tel East 3123
Honey Dew Ice Cream Co 2424 NE Broadway
Jewel Ice Cream Co 18-22 N Knott
Polar Pie Ice Cream Corp 2424 SE 37th av
Portland Ice Cream Co 4220 SE Hawthorne blvd
Rogers Ice Cream 927 SE Marion
Schmidt L A 4712 N Williams av
Se-Mor Ice Cream 7738 SE 13th av
Stark Ice Creamery 8705 SE Stark
Tina's Homemade Ice Cream 5541 SE Hawthorne blvd

'ICE CREAM MANUFACTURERS' EQUIPMENT AND SUPPLIES

MONROE DAIRY MACHINERY INC, 1600 SW Harbor Drive, Tels ATwater 6461, 6462 and 6463 (For further information see page 45 Buyers' Guide)

*ICE SKATING

PORTLAND ICE ARENA INC, 2045 NW Marshall, Tel BRowdway 5461

IMPORTERS

(See also Exporters)

Anzen Trading Co (food products) 211 NW Davis
Balfour Guthrie & Co Ltd 733 SW Oak
Cherry H K 821 NW Flanders R235
Delhousie W C Co Inc (window and crystal glass) 1233 SW 13th av
Grand Lapidary Co 510 SW 3d av R216
Herman A J Co 837 Terminal Sales bldg
Italian Importing Co 1537 SE Grand av
LaCartina (food and wines) 601 SW 11th av
Lampshades The (lamps) 2002 NE 41st av
Mulligan & Schmiedell (food products) 203 SE Alder
NEW ITALIAN IMPORTING CO (Olive Oil) 1537 SE Grand av, Tel East 4126
North West Trading Co (china) 323 NW 12th
Oriental Plywood Co 622 American Bank bldg
Porter Corp 1100 Terminal Sales bldg
Sweeney Robt T & Co (genl mds) 309 SW 6th av
West Coast Importing Co (food products) 1035 SW 1st av
West Coast Orient Co (genl mds) 291 NW 2d
Yoon Food Co 119 NW 9th av

INCINERATORS

Incinerator Co 1901 N Killingsworth

*INCOME PROPERTIES

McKAY & LESSLER, 7772 SW Capitol Highway, Tel Cherry 4014 and 4221 (For further information see page 102 Buyers' Guide)

***INDUSTRIAL INSTRUMENTS**
BROWN INSTRUMENTS DIVISION OF MINNEAPOLIS-HONEYWELL REGULATOR CO, 104 SE 7th Av, Tel Filmore 6311

***INDUSTRIAL LIQUIDATORS**
DULIEN STEEL PRODUCTS INC OF WASHINGTON, 12005 N Burgard, Tels UNIVERSITY 2459 and 4471

***INDUSTRIAL PIPING**
MUIRHEAD & MURHARD COMPANY, 2202 N W Savier, Tel ATwater 7253

***INDUSTRIAL SUPPLIES**
INDUSTRIAL SPECIALTIES CO, 940 SE 7th Av, Tel Vermont 5443

INDUSTRIAL SUPPLIES—WHOLESALE

Air-Mac Inc of Oregon 1415 SE 5th av
Faller Preston Co 1611 NW Northrup
Harmer Steel Products & Supply Co Inc 1515 NW Hoyt
HASELTINE J E & CO INC, 115 SW 2d Av, Tel ATwater 7511
Industrial Tool & Supply Co Swan Island
McDowell Ken Co 1435 SW Front av
MUNNELL & SHERRILL INC, 400 SW 1st Av, Tel ATwater 7365
Northwest Steel Co 935 NW 12th av R1130
Oregon Handling Equipment Co 523 NW Glisan P & G Supply Co 2262 N Albina av
Simonds Worden White Co 1220 Stark R103
Stein-Hall & Co 1132 NW Glisan
Turco Products Co 911 NW Hoyt
Utilities Supply Co 1307 SE Stark

***INDUSTRIAL AND MILL SUPPLIES**
HUMKE KEN R COMPANY, 207 NW 14th Av, Tel ATwater 7233

INFORMATION BUREAUS

Oregon Insurance Rating Bureau 329 SW 5th av
PORTLAND CHAMBER OF COMMERCE, 824 SW 5th Av, Tel ATwater 9411 (For further information see page 2 Buyers' Guide)
Raw Materials Survey Inc 701 Woodlark blvd
VISITORS INFORMATION CENTER (Dept of Portland Chamber of Commerce) 1020 SW Front Av, Tel ATwater 9411

INK MANUFACTURERS—PRINTERS

California Ink Co Inc 1206 NW Hoyt
General Printing Ink Co 1226 SE Grand av
Great Western Printing Ink 535 NW 11th av
Interchemical Corp Printing Ink Corp 1525 NW 20th av
Schmidt & Valentine Co 315 NW 10th av

INSECT POWDERS—MANUFACTURERS

Kilow Co of Oregon 6043 SW Capitol hwy
Kilwell Laboratories Inc 1735 SE Powell blvd
Pacific Insecticide Co 207 Park blvd

*INSECTICIDES—WHOLESALE AND MANUFACTURERS

KRISHNELL LABORATORIES INC, 1735 SE Powell Blvd, Tel East 1412

INSPECTION BUREAUS

Central Inspection Bureau 2142 NE 12th av
Hickox & M Inspection Service Inc 701-02 Fairview
HOOPER-HOLMES BUREAU INC THE, 1739 NE 42d Av at Sandy Blvd, Tel Webster 2727
Hunt Robt W Co 208 SW Stark R109
Pacific Lumber Inspection Bureau 309 SW 6th av R1006
Sayton E W & Co 5121 NE Glisan
Underwriters Laboratories Inc 1122 SW 5th
West Coast Bureau of Lumber Grades & Inspection 1419 SW Morrison

INSULATING MATERIALS

Battins E J Co (foam and heat) 321 N Tillamook
Campana Rock Wool Co 333 SE Belmont
CHAMBERLIN CO OF AMERICA, 1225 SW Stark, Tel BRowdway 2185
Cork Insulation Co 625 SE Stark
Fiberglass Engineering & Supply Co 496 NW Glisan
Guthrie Steward Co 2615 N Commercial pl
Hill L G Co 1220 SW Stark R103
Insulation Corp of America (insulating materials) 721 NW Tillamook
Insulation & Wires Inc 1702 NE 42nd Av
MULTIVOMAR METAL WEATHER STRIP CO, 3228 NE Sandy Blvd, Tel Webster 1332
Portland Metal Weatherstrip Co 2215 SW 1st
Portland Insulating Co Inc 711 SE Alder
Portland Northwest Insulating Co 2023 N Har-
bor
Weather Master Co 1823 N Killingsworth

*INSURANCE—ACCIDENT AND HEALTH

BOQUIST, CLARK & SWIVEL, 1210 US National Bank Bldg, 306 SW 6th Av, Tel Capitol 1986 (For further information see page 90 Buyers' Guide)
COFFEY HARRY K & ASSOCIATES, 1001 SW 10th Av, BRowdway 5491 (For further information see page 83 Buyers' Guide)
DOOLY & CO, 312 Board of Trade Bldg, 310 SW 4th Av, Tel ATwater 8311 (For further information see page 84 Buyers' Guide)
FIREMAN'S FUND GROUP, 900 Board of Trade Bldg, 310 SW 4th Av, Tel ATwater 7407
OCCIDENTAL LIFE INSURANCE CO OF CALIFORNIA, 409 American Bank Bldg, 621 SW Morrison, Tel Beacon 7118
POWNALL, TAYLOR & HAYS, 330 American Bank Bldg, 621 SW Morrison, Tel ATwater 1133
SOUTHLAND LIFE INSURANCE CO OF TEXAS, 1011 Equitable Bldg, 421 SW 6th Av, Tel ATwater 7303 (For further information see page 92 Buyers' Guide)
WELLS-REED INSURANCE, 412 Failing Bldg, 618 SW 5th Av, Tel ATwater 7305 (For further information see page 89 Buyers' Guide)

*INSURANCE—AUTOMOBILE

AMERICAN AUTOMOBILE INSURANCE CO OF ST LOUIS, 810 Yeon Bldg, 522 SW 5th Av, Tel ATwater 5101
BATES, LIVELY & PEARSON, 516-23 Portland Trust Bldg, 319 SW Washington, Tel ATwater 8486 (For further information see page 82 Buyers' Guide)
BOQUIST, CLARK & SWIVEL, 1210 US National Bank Bldg, 309 SW 6th Av, Tel Capitol 1986 (For further information see page 90 Buyers' Guide)
COFFEY HARRY K & ASSOCIATES, 1001 SW 10th Av, Tel BRowdway 5491 (For further information see page 83 Buyers' Guide)
DOOLY & CO, 312 Board of Trade Bldg, 310 SW 4th Av, Tel ATwater 8311 (For further information see page 84 Buyers' Guide)
FIREMAN'S FUND GROUP, 900 Board of Trade Bldg, 310 SW 4th Av, Tel ATwater 7407
MARSH & McLENNAN, 305 Equitable Bldg, 421 SW 6th Av, Tel BRowdway 1141 (For further information see page 31 Buyers' Guide)
NORTHWEST CASUALTY CO, 234 Pacific Bldg, 520 SW Yamhill, Tel ATwater 9554
POWNALL, TAYLOR & HAYS, 330 American Bank Bldg, 621 SW Morrison, Tel ATwater 1133
SCHMEER INSURANCE AGENCY, 613 Cascade Bldg, 520 SW 6th Av, Tel BRowdway 1215
UNITED PACIFIC INSURANCE CO, 627 Board of Trade Bldg, 310 SW 4th Av, Tel ATwater 7695
WELLS-REED INSURANCE, 412 Failing Bldg, 618 SW 5th Av, Tel ATwater 7305 (For further information see page 89 Buyers' Guide)

*INSURANCE—BOILER

WELLS-REED INSURANCE, 412 Failing Bldg, 618 SW 5th Av, Tel ATwater 7305 (For further information see page 89 Buyers' Guide)

*INSURANCE—BURGLARY

BATES, LIVELY & PEARSON, 516-23 Portland Trust Bldg, 319 SW Washington, Tel ATwater 8486 (For further information see page 82 Buyers' Guide)
BOQUIST, CLARK & SWIVEL, 1210 US National Bank Bldg, 309 SW 6th Av, Tel Capitol 1986 (For further information see page 90 Buyers' Guide)
COFFEY HARRY K & ASSOCIATES, 1001 SW 10th Av, Tel BRowdway 5491 (For further information see page 83 Buyers' Guide)
DOOLY & CO, 312 Board of Trade Bldg, 310 SW 4th Av, Tel ATwater 8311 (For further information see page 84 Buyers' Guide)

*INSURANCE—CASUALTY

AMERICAN AUTOMOBILE INSURANCE CO OF ST LOUIS, 810 Yeon Bldg, 522 SW 5th Av, Tel ATwater 5101
BATES, LIVELY & PEARSON, 516-23 Portland Trust Bldg, 319 SW Washington, Tel ATwater 8486 (For further information see page 82 Buyers' Guide)
BOQUIST, CLARK & SWIVEL, 1210 US National Bank Bldg, 309 SW 6th Av, Tel Capitol 1986 (For further information see page 90 Buyers' Guide)
COFFEY HARRY K & ASSOCIATES, 1001 SW 10th Av, Tel BRowdway 5491 (For further information see page 83 Buyers' Guide)
DOOLY & CO, 312 Board of Trade Bldg, 310 SW 4th Av, Tel ATwater 8311 (For further information see page 84 Buyers' Guide)
FIREMAN'S FUND GROUP, 900 Board of Trade Bldg, 310 SW 4th Av, Tel ATwater 7407
GREAT AMERICAN INDEMNITY CO, 412 Failing Bldg, 618 SW 5th Av, Tel ATwater 7305
POWNALL, TAYLOR & HAYS, 330 American Bank Bldg, 621 SW Morrison, Tel ATwater 1133
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Lombard St. Tel. 288-1111 (See Page 45 Buyers' Guide)
WEST COAST APPLIANCE DISTRIBUTORS INC 4029 SE
HAWTHORNE BLVD
WILKINSON'S APPLIANCES 4027 SE WOODSTOCK BLVD
WENDELL AVE Tel. 288-1111

HOUSEHOLD APPLIANCES-REPAIRERS
ADAM'S APPLIANCE & REPAIR SHOP 7120 SE
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ALLIED APPLIANCE SERVICE CO 2248 NE UNION AV
APPLIANCE REPAIRERS HOSPITAL 3000 NE
KILLINGSWORTH ST
B J INSTALLATION SERVICE 1723 N SIMPSON ST
BALCH ALKON J 3728 NE 5TH AV
BRASS BELL SERVICE 4222 SE 21ST AV
BURNS APPLIANCE & REFRIGERATOR 2305 NW KEARNEY
ST
CASH APPLIANCE REPAIR INC 7900 SW 35TH AV
CENTRAL APPLIANCE CO 417 NE GLISAN ST
DIVISION APPLIANCE SERVICE CO 4220 SE
HAWTHORNE BLVD
EDWARDS APPLIANCE SERVICE & REPAIR 4766 NE
SKIDMORE ST
G & H W 4728 SE 48TH AV
GAS APPLIANCE SPECIALISTS INC 1612 NW 23D AV
GENERAL ELECTRIC SERVICE CENTER 2137 E
BURNESIDE ST
GLENN APPLIANCES 3166 NE GLISAN ST
JACKIE'S APPLIANCES 7015 N GREELEY AV
P & F ELECTRIC CO 1820 NE ALBERTA ST
SAMS APPLIANCE REPAIR 2723 N MONTANA AV
USSELL'S APPLIANCE SERVICE 1439 NE ALBERTA

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St. Tel. 288-1111

***HOMEOWNERS AUTHORITY**
HOUSING AUTHORITY OF PORTLAND 8920 N Wool-
ley St. Tel. 288-1111

HYDRAULIC EQUIPMENT AND SUPPLIES
BILLS HYDRAULIC SERVICE 42 NE 82D AV
BOBBE'S PUMP & DRILLING
605 SE ANKENY ST
TELEPHONE 226-3311
COMPONENT PARTS 222 SE 15TH AV
CONSOLIDATED SYSTEMS MFG CO 6665 N EDISON ST
DIVERSIFIED INDUSTRIES INC 237 SE UNION AV
FLUID AIR COMPONENTS INC 1607 SW IDAHO ST
HYDRAULIC & AIR EQUIPMENT CO 1925 NW GIMBY ST
HYDRAULIC SPECIALTIES INC 1727 N BENTON AV
OREGON HYDRAULIC CO 2302 SE 54TH AV
P & S 2028 NW 54 WILSON AV
SPARKS HYDRAULIC INC 1175 SE TAYLOR ST
STRATFORD INC 1884 1825 NE 21ST AV
SWEETLAND CO 1825 NE 21ST AV
VICKERS DIVISION OF SPERRY RAND 2828 SW CORBETT
AV SW 315

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MARYLAND PACIFIC CONE CO 122 NE 3D AV

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BASKIN-ROBBINS 21 FLAVORS 36 NW 23D PL
BASKIN-ROBBINS 21 FLAVORS 6371 SW CAPITOL HWY
BASKIN-ROBBINS 21 FLAVORS 2906 SW BEAVERTON
HILLCLIFF ST
BROADWAY DAIRY QUEEN 3524 NE BROADWAY ST
BROADWAY ICE CREAM BOWL 2015 NE BROADWAY ST
CAPITOL DAIRY QUEEN 1601 SW CAPITOL HWY
CARNATION CO
3342 SE Morrison St. Tel. 202-2131 (See Right Top
Lines)
DAVIDSON'S ICE CREAM & CATERING SERVICE 4633
SE WOODSTOCK BLVD
DIVISION STREET DAIRY QUEEN 5605 SE DIVISION
DOUBLE C MOUNTAIN 4700 NE BROADWAY ST
DUKE DAIRY QUEEN 5924 SE DUKE ST
ELECTRO-PAID ICE CREAM CO 5627 E BURNSIDE ST
FARRELL'S ICE CREAM PARLOR 1613 NE WEIDLER ST
FARRELL'S ICE CREAM PARLOR 1613 NE WEIDLER ST
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MICKIE'S ICE CREAM STORE 8324 SE 17TH AV
POD HILL ICE CREAM BOWL 501 NW 21ST AV
POLAR KING 1825 NE BROADWAY ST
ROSE'S TWENTY FOUR FLAVORS ICE CREAM 4444 NE
FREMONT ST
SAINT JOHN'S ICE CREAMERY 8232 N LOWARD ST
SANDY DAIRY QUEEN 5105 NE SANDY BLVD
SERGEANT'S FROZEN ICE CREAM PARLOR 2440 SW
VICTA AV
TASTEE-FREEZE 2360 SE 21ST AV
TASTEE-FREEZE 7412 NE GLISAN ST
TASTEE-FREEZE 415 NW 21ST AV
TASTEE-FREEZE 2226 SW 5TH AV
VETSCH-WATTS ICE CREAM CO 4029 NE SANDY BLVD
WHITE HOLEST ICE CREAMERY 6237 N DENVER AV

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ICE-DEALERS
ZIEFF ICE CO INC 46 SE WASHINGTON ST

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HUMPHRY ICE CO 6002 SW VIRGINIA ST
KULWITT ICE CO 1534 NE 37TH AV
TERMINAL ICE & COLD STORAGE BLDG 2001 SW
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5th Av. Tel. 226-3703
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HALFORD GUTHRIE FOREST PRODUCT INC 721 SW CAK
ST
HILDSCE A W CO 615 OREGON ST BLDG
HOLDT GEO E & CO 437 TERMINAL SALES BLDG
BONE & CO 415 BD OF TRADE BLDG
CHINA'S IMPORT EXPORT CO INC 1633 NE 42D AV
CHINA GATE 921 SW ALDER ST
DARUMA CO 3400 SE CLINTON ST
ELECTRICAL TRANSMISSION EQUIPMENT CO 715 BD OF
TRADE BLDG
FONTANA IMPORTS & EXPORTS 2704 SE 34TH AV
FOOD AGENCY OF JAPAN 824 SW 5TH AV SW 203
HARVILL CO 3601 NW YEON AV
HIRANPOR CO 1720 NW MARSHALL ST
IMPORT 528 CORBETT BLDG
JASMIN IMPORTS 901 SW ALDER ST
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LITTLE MEXICO 3093 SE DIVISION ST
MAKOTO IMPORTS INC 646 N THOMPSON ST
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BLDG
MYERS SALES CO INC 637 TERMINAL SALES BLDG
NISHIO TRADING AMERICAN CORP 900 COMMUNWELTH
BLDG
NORREST CHINA CO 115 NW 1ST AV
OKURA & CO NEW YORK INC 407 BD OF TRADE BLDG
OREGON SPECIALTY CO 615 NE 58TH AV
ORVIS INTERNATIONAL 1919 SW WADSWORTH ST
P & S CO 607 EXECUTIVE BLDG
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TAMAK INC 3328 SE HAWTHORNE BLVD
TODD IMPORTS INC 316 SW RINE ST
VI-JAN SALES CO 3405 NE 73D AV
WESTPORT PRODUCTS INC 606 SW BROADWAY ST SW
911

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51 Buyers' Guide)

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Washington St. Tel. 223-3123 (See Page 51 Buyers' Guide)
CLARK COUNTY INDUSTRIAL BUREAU
PO Box 1180 Vancouver, Wash. Tel. 692-1511
PORT OF VANCOUVER
PO Box 1180, Vancouver, Wash. Tel. 692-1511
Portland Tel. 285-8824 (See Page 51 Buyers' Guide And Page A)

INDUSTRIAL RELATIONS-COUNSELORS
SHELTON NW J 2393 SW PARK PL APT 202

INDUSTRIAL SUPPLIES-WHOLESALE
ACTIVE EQUIPMENT CO INC 3765 NW NICOLAI ST
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AUTOMATIC WELDERS & REBUILDERS INC 2224 NE 82D
AV
CANAL INDUSTRIAL SUPPLY 2643 N ALBANY AV
DAVIS INDUSTRIAL PRODUCTS INC 2825 NW 12TH AV
ST
FORDRE CO 5505 SE MILWAUKEE AV
GENERAL RUBBER & SUPPLY CO INC 2205 NW FALEIGH
ST
HITE SUPPLY CO 2504 SE CLINTON ST
HUNKE KEN R CO INC 2211 NW NICOLAI ST
INDUSTRIAL PARTS INC 2727 SE 15TH AV
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WESTERN PRINTING INC CO 3250 NW YEON AV
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LESTER ALPH CO 1520 NW 20TH AV
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SINCLAIR CHEMICALS INC-CAL-INK DIV 5000 SE 18TH
AV

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WILLIAMS A W INSPECTION CO 8532 N VANHOE ST
SW 222

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BARTLETT E J CO THE 524 N TILLAMOOK ST
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AV

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Suite 510 Lindsay Bldg 710 SW 2d Av. Tel.
226-7236 (See Page 66 Buyers' Guide)
BUSINESS MEN'S ASSURANCE CO OF
AMERICA
415 Executive Bldg 811 SW 6th Av. Tel. 223-6306
(See Page 53 Buyers' Guide)
INSURANCE SERVICE CO, Insurance Center Bldg
415 SW 10th Av. Tel. 228-8683 (See Page 66
Buyers' Guide)
MASSACHUSETTS INDEMNITY AND LIFE
INSURANCE CO
Suite 101 The Skyline Bldg 2041 SW 58th Av. Tel.
224-2455 (See Page 57 Buyers' Guide)

***INSURANCE-AUTOMOBILE**
DOOLY & CO OREG LTD
2430 3d FL BOARD OF TRADE BLDG
11 SW 4th AV
TELEPHONE 226-2382
MALONE ED INSURANCE AGENCY, 3768 SE Haw-
thorne Blvd, Tel. 234-6587 (See Page 65 Buyers' Guide)
MARSH & McLENNAN-D K MacDONALD & COMPANY
INC, Standard Plaza 1100 SW 6th Av (97204), Tel.
503: 3000, Day Or Night (See Page 56 Buyers' Guide)

***INSURANCE-CASUALTY**
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421 SW 6th AV
TELEPHONE 224-3600

***INSURANCE-FIRE**
EMPLOYERS INSURANCE OF
WAUSAU
224 LLOYD CENTER
TELEPHONE 282-4511
NORTHWESTERN MUTUAL INSURANCE CO, 234
Pacific Bldg 520 SW Yamhill St, Tel. 226-4553

***INSURANCE-FIRE AND MARINE**
DUPHAM & BATES AGENCIES INC, 901 SW
Washington St, Tel. 224-5170 (See Page 55
Buyers' Guide)
MALONE ED INSURANCE AGENCY, 3768 SE
Hawthorne Blvd, Tel. 234-6587 (See Page 65
Buyers' Guide)

***INSURANCE-GENERAL**
NORTH PACIFIC INSURANCE CO
10 FLOOR COMMONWEALTH BLDG
421 SW 6th AV
TELEPHONE 224-3600
OREGON AUTOMOBILE INSURANCE CO
10 FLOOR COMMONWEALTH BLDG
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COMPANY, 201 Oregon Bank Bldg, 319 SW Wash-
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624 SW 3RD AV Tel 226-8411 (See Index To Advertisers)
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411 Executive Bldg 611 SW 6th Av, Tel 223-6305 (See Index To Advertisers)

GACEK INSURANCE AGENCY INC, 2005 NE 42d Av
Tel 266-2241 (See Index To Advertisers)

INSURANCE SERVICE CO, Insurance Center Bldg 415
SW 10th Av, Tel 226-8683 (See Index To Advertisers)

MASSACHUSETTS INDEMNITY AND LIFE INSURANCE CO
Suite 101 The Skyline Bldg 2041 SW 58th Av, Tel 292-2655 (See Index To Advertisers)

*INSURANCE—ADJUSTORS

STATE FARM INSURANCE CO CLAIMS OFFICE
10014 NE GLEAN ST
TELEPHONE 255-6630

*INSURANCE—AUTOMOBILE

AUTOMOBILE CLUB OF OREGON, AAA Bldg 600 SW
Market St, Tel 226-6201

GACEK INSURANCE AGENCY INC, 2005 NE 42d Av
Tel 266-2241 (See Index To Advertisers)

MARSH & McLENNAN INC OF OREGON

SUITE 100 GEORGIA PACIFIC BLDG

900 SW 5TH AV

TELEPHONE CODE 503: 224-3000

DAY OR NIGHT

(See Index To Advertisers)

*INSURANCE—CASUALTY

NORTHWESTERN NATIONAL INSURANCE CO GROUP

5TH FLOOR COMMONWEALTH BLDG

421 SW 6TH AV

TELEPHONE 224-3600

*INSURANCE—FIRE

EMPLOYER'S INSURANCE OF WAUSAU

2024 LLOYD CENTER

TELEPHONE 262-4511

*INSURANCE—FIRE AND MARINE

DURHAM & BATES AGENCIES INC, 501 SW Washington St, Tel 224-5170 (See Index To Advertisers)

*INSURANCE—GENERAL

NORTH PACIFIC INSURANCE CO

5TH FLOOR COMMONWEALTH BLDG

421 SW 6TH AV

TELEPHONE 224-3600

NORTHWESTERN NATIONAL CASUALTY CO

5TH FLOOR COMMONWEALTH BLDG

421 SW 6TH AV

TELEPHONE 224-3600

OREGON AUTOMOBILE INSURANCE CO

5TH FLOOR COMMONWEALTH BLDG

421 SW 6TH AV

TELEPHONE 224-3600

UNITED STATES FIDELITY AND GUARANTY COMPANY, 201 Oregon Bank Bldg 501 SW Washington St, Tel 227-3751

*INSURANCE—GROUP

BUSINESS MEN'S ASSURANCE CO OF AMERICA

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*INSURANCE—HEALTH

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(See Index To Advertisers)

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KAISER FOUNDATION HEALTH PLAN OF OREGON

1616 SW 1ST AV

TELEPHONE 224-7720

*INSURANCE—LIFE

A A & L AGENCY, 4255 NE Broadway St, Tel 282-2527

AETNA LIFE AND CASUALTY COMPANY

(Life Division), 2000 SW 1st Av, Tel 224-1390 (See Index To Advertisers)

BANKERS LIFE COMPANY, DES MOINES, IOWA

Suite 510 Lindsay Bldg 710 SW 2d Av, Tel 226-7256 (See Index To Advertisers)

BANKERS LIFE NEBRASKA, 1220 SW Morrison St, Tel 226-8209 (See Index To Advertisers)

BUSINESS MEN'S ASSURANCE CO OF AMERICA

411 Executive Bldg 611 SW 6th Av, Tel 223-6305 (See Index To Advertisers)

EMPLOYER'S INSURANCE OF WAUSAU

2024 LLOYD CENTER

TELEPHONE 262-4511

GACEK INSURANCE AGENCY INC, 2005 NE 42d Av, Tel 266-2241 (See Index To Advertisers)

INSURANCE SERVICE CO, Insurance Center Bldg 415 SW 10th Av, Tel 226-8683 (See Index To Advertisers)

JEFFERSON STANDARD LIFE INSURANCE CO, 1500 NE Irving St, Suite 336, Tel 234-8451

MASSACHUSETTS INDEMNITY AND LIFE INSURANCE CO

Suite 101 The Skyline Bldg 2041 SW 58th Av, Tel 292-2655 (See Index To Advertisers)

NEW YORK LIFE INSURANCE CO, Willamette General Office, 1600 SW 4th Av Suite 609, Tel 224-1376

NORTH AMERICAN LIFE AND CASUALTY COMPANY

1080 Lloyd Bldg 700 NE Multnomah St, Tel 232-8189

NORTHWESTERN MUTUAL LIFE INSURANCE CO OF MILWAUKEE, WIS

5TH FLOOR

OREGON BLDG

505 SW OAK ST

TELEPHONE 223-7335

(See Index To Advertisers)

PENN MUTUAL LIFE INSURANCE COMPANY OF PHILADELPHIA, 2118 SW 5th Av, Tel 224-1830 (See Index To Advertisers)

PHOENIX COMPANIES THE

PHOENIX MUTUAL LIFE INSURANCE CO OF HARTFORD, CONN, 2828 SW Corbett Av, Tel 226-4336 (See Index To Advertisers)

STANDARD INSURANCE COMPANY

1100 SW 6TH AV

TELEPHONE 224-8151

(See Index To Advertisers)

SUN LIFE ASSURANCE COMPANY OF CANADA, 1201 SW 12th Av, Tel 226-2567 (See Index To Advertisers)
UNITED BENEFIT LIFE
610 MAYER BLDG
1130 SW MORRISON ST
TELEPHONE 223-6331

*INSURANCE—TITLE

PIONEER NATIONAL TITLE INSURANCE COMPANY OREGON DIVISION

421 SW STARK ST

TELEPHONE 224-0550

EAST MULTNOMAH COUNTY OFFICE

227 NE 122D ST

TELEPHONE 228-1181

(See Index To Advertisers)

TITLE INSURANCE COMPANY OF OREGON

425 SW 4TH AV

TELEPHONE 222-3651

EAST SIDE BRANCH

29 NE 122D AV

TELEPHONE 255-9103

WASHINGTON COUNTY OFFICE

12012 NW CANYON RD

BEAVERTON

TELEPHONE 646-8181

CLACKAMAS COUNTY OFFICE

112 11TH ST

OREGON CITY

TELEPHONE 656-5243

(See Index To Advertisers)

TRANSAMERICA TITLE INSURANCE COMPANY

409 SW 9TH AV

TELEPHONE 222-9931

*INSURANCE—WORKMEN'S COMPENSATION

EMPLOYER'S INSURANCE OF WAUSAU

2024 LLOYD CENTER

TELEPHONE 282-4511

*INSURANCE ADJUSTORS

PACIFIC NORTHWEST CLAIM SERVICE INC, 3243 NE Sandy Blvd, 97232, Tel 234-9934

INSURANCE ADJUSTORS

ALL-CO'S DRIVE-IN CLAIMS BUREAU 2816 SE STARK ST

BRAFFORD & KEEP CO 2154 NE BROADWAY ST RM 214

BROWN BROS ADJUSTORS INC 2005 LLOYD CENTER

CONTINENTAL CLAIMS SERVICE INC 2628 SW CORBETT AV RM 115

ESCH-WETZEL SERVICE CO 610 SW BROADWAY ST RM 300

GENERAL ADJUSTMENT BUREAU INC 2130 SW 5TH AV

GIPSY GREEK & GUNN INC 421 SW 6TH AV RM 724

KEEF JACK C CO 1220 SW COLUMBIA ST RM 100

PACIFIC CLAIMS SERVICE 1235 SW MARKET ST

SNYDER MILKES & ASSOCIATES INC 6653 NE GLISAN ST

STUTTS & ASSOCIATES 1235 SW MARKET ST

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A A & L AGENCY, 4255 NE Broadway St, Tel 282-2527

ALEXANDER & ALEXANDER INC (Charles W Sexton Company Division), 210 Standard Plaza Bldg 1100 SW 6th Av, Tel 226-7371

ALLIED BONDING INSURANCE AGENCY INC 204 SW STARK ST

AMERICAN FEDERAL INSURANCE AGENCY INC 805 SE HAWTHORNE BLVD

ARGONAUT INSURANCE CO 514 SW 6TH AV 5TH FL

ARNOLD-BOWES INC (FORMERLY COMMERCE INS) 222 SW HARRISON ST SUITE 61

ARNOLD INSURANCE CO 1521 SW SALMON ST

ASBAH TEO INSURANCE AGENCY 1725 SE 82D AV

AVERTILL ED INSURANCE AGENCY 806 SW BROADWAY ST RM 500

AZUMANO GED I INSURANCE 200 SW 4TH AV

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PG 146

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Baskin-Robbins 31 Ice Cream Stores 1310 Lloyd Center
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Capitol Dairy Queen 6660 SW Capitol Hwy
Dairy Queen 6933 N Lombard St
Dairy Queen 1610 SE Tolman St
Davidson's Ice Cream 4633 SE Woodstock Blvd
Dipping Station The 515 SW Broadway St
Division Street Dairy Queen 5605 SE Division St
Duke Dairy Queen 5934 SE Duke St
Farrell's Ice Cream Parlor 0251 SW Julia St
Farrell's Ice Cream Parlor Restaurants 1613 NE Weidner St
Great Roberts 921 SW Morrison St Main Fl
Mr. B's 1036 NE Alberta St
Nor Hill Tastee-Freez 410 NW 21st Av
Pacific Tastee-Freez Inc 3383 SE 21st Av
Rose's Twenty Four Flavors Ice Cream 4444 NE Fremont St
Sandy Dairy Queen 5365 NE Sandy Blvd
Tastee-Freez 3120 SE Milwaukie Av
Tastee-Freez 3001 SE Hawthorne Blvd
Tastee-Freez 2336 SW 6th Av
Union Avenue Dairy Queen 7339 NE Union Av
Yogurt Stand The 401 SW 4th Av

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ICE-MFRS AND WHOL

Beverage Ice Co 6500 SW Virginia Av
Nodden Ice Co 1693 NE 37th Av
Terminal Ice & Cold Storage (Genl Ofc) 1618 SW 1st Av Rm 211

IMPORTERS

Annet Oriental Foods & Imports 736 NE Union Av
Annet Pacific Corp 7750 NE 17th Av
Ameslows 225 SW Ash St
Balfour Guthrie & Co Ltd (Industrial Div) 200 SW Market St Suite 1460
Bridges A W Co Inc 319 Oregon Bk Bldg Rm 610
Boone & Co Inc 1000 Bd Of Trade Bldg
Brokers Imports 200 SW Market St Suite 455
Burns Bros Importers Inc 225 SE Main St
Casa Del Sol Imports From Mexico 6316 SW Capitol Hwy
Chen's Import Export Co Inc 4138 NE Broadway St
Chen's Import Export Co Inc 1633 NE 42d Av
Ciaz Importers Inc 10120 SW 61st Av
Contemporary Designs 7131 NE Sandy Blvd
Denny & Assoc 200 SW Market St Suite 970
Elate Imports 1435 SE Hawthorne Blvd
Faria Imports 6215 SE Foster Rd
Fontaine Co 2704 SE 38th Av
Food Agency Of Japan 2405 First Natl Bk Tower
Globe Imports 3137 NE 82d Av
Green Patricia Imports 133 NW 2d Av
Harwell Co 3501 NW Yeon Av Rm 115
Hixstad's 515 SW Broadway St
Import Plaza 921 SW Morrison St 3d Fl
Interchem Corp 1130 SW Morrison St Rm 318
Jerusalem Importing Co 1306 SW Washington St
Kamematsu Goshin (USA) Inc 3331 First Natl Bk Tower
Kanis Associates (Br Ofc) 213 SW Ash St Rm 209
L Art De Plaisir 921 SW Morrison St 2d Fl
Mamla Import-Export 116 NE 28th Av
Masayama Imports 1876 SW 5th Av
Mitsubishi Int. Corp 2300 First Natl Bk Tower
Monarch Import Co 200 SW Market St Suite 455
Nortree Chusa 55 W Burnside St
Orange Emporium Imports 3159 SE Belmont St
Overseas Shipping Co 3120 First Natl Bk Tower
P S G Co 811 Executive Bldg Rm 917
Pacific Northwest International Trading 144 NE 28th Av
Pacific Orient Imports 5 NW Front Av
Peri Imports 5331 SW Macadam Av Space 28
Poreau Imports 534 SW 3d Av Rm 816
Poreau Passener Co 3585 NW Yeon Av
Portland Trading Co 917 SW Oak St Rm 300
Preferred Import Co 1316 SE 12th Av
Renaissance Records 1133 SW Morrison St
Rockfield Importers 222 SE 16th Av
Sahur W G Imports 107 SE Washington St
Sanoa Kusen U S A Corp 1020 Cascade Bldg
Seau Imports 5301 NE Glikan St
Shin Hing Lumber Co 720 Morgan Bldg Rm 306
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Spartanopoulos Nick 139 SE Washington St
Sunflower Pacific Corp 4415 NE Sandy Blvd Rm 201
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Tama Inc 3325 SE Hawthorne Blvd
Thomas Marx Co 6443 SW Beaverton Hwy Suite 202
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Block H & R Co 7904 SW Barbur Blvd
Bowman Financial Services 2223 NE Broadway St
College Crest Income Tax Service 4730b N Lombard St
Dickson H E Agency 209 SW 9th Av
E & R Bookkeeping & Taxes 8535 N Lombard St

INCOME TAX SERVICE-CONTD
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Lombard Income Tax Service 7337 N Lombard St
Port City 2843 NE Union Av
Tax Reducers 8502 SE Stark St

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C & H Supply Co 3166 N Greeley Av
Campbell's Industrial Supply 1240 NE 63d Av
Construction Industrial Sup 1036 SE Taylor St
Davis Industrial Products Co 2220 NW Quimby St
Eur-Control U S A Ltd 6443 SW Beaverton Hwy Suite 410e
Farwest Industrial Supply 222 SE 16th Av
Foxboro Co (Br) 4311 NE Tillamook St

GENERAL TOOL & SUPPLY CO
407 NW 17th Av
TELEPHONE 226-3411

Hanset Sheet Metal 2324 NE 82d Av
Humke Ken R Co Inc 2211 NW Nicolai St
Industrial Parts Inc 2737 SE 15th Av
J F W Industries 7920 SE Stark St
Koop Industrial Handling Equip Co Inc 904 SE Belmont St
Mill & Power Specialties Inc 1112 NW 19th Av
Misco Inc 11444 NW St Helens Rd
Murphy Industrial Supply Co 2239 NW Raleigh St
Northwest Industrial Sales Co 947 SE Market St
Oregon Industrial Supply Co 718 SW Alder St
Quality Industrial Equipment Co Inc 7607 NE 21st Av
SEA-PORT CONTROLS INC 1935 N Argyle (97217), Tel 283-1950
Stephenson Industrial Supply Inc 2307 NW Kearney St
Union Supply Co Inc 1400 NW Hoyt St
Wagner Industrial Inc 2000 SE 11th Av
Woodbury & Co 5851 N Lagoon Av
Worldwide Industrial Supply Co 1828 NW Quimby St

INFORMATION BUREAUS

Child Care Coordinating Council 1110 SE Alder St
PORTLAND CHAMBER OF COMMERCE 824 SW 5th Av, Tel 228-9411 (See Index To Advertisers)

INK MFERS

Cal-ink 5000 SE 18th Av
Custom Ink Co 2424 SE Holgate Blvd
Flint Ink Corp 10653 N Lombard St
Richardson Ink Co 3259 NW Yeon Av

INSPECTION BUREAUS

A B S Worldwide Technical Services 1618 SW 1st Av Rm 220
Hunt Robert W Co 2484 NW Thurman St
Mc Cutchan Inspections Inc 8525 N Lombard St
Overseas Merchandise Inspection Co Ltd 3012 First Natl Bk Tower
Trans-Continental Freight Bureau 800 NW 6th Av Rm 200

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Fibron Corp 6507 N Richmond Av
Zonolite (Div W R Grace & Co) 2303 N Harding Av

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Acacia Mutual Life Ins Co 700 NE Multnomah St Suite 1496
Administration & Insurance Office Inc 2029 Lloyd Center
Administration Service Co 1985 SW 6th Av Suite 8
Advanced Insurance Management Inc 222 SW Harrison St Apt 1b
Aetna-Cravens Dargan & Co (Br Ofc) 200 SW Market St Suite 700
AETNA LIFE & CASUALTY 200 Market Bldg, 200 SW Market St (97201), Tel 221-5400
Aetna Life & Casualty (Casualty & Surety Div) 200 SW Market St Suite 1500
Aetna Life & Casualty (Group Div) 200 SW Market St Suite 1600
Aetna Life Casualty Insurance Co 1530 SW 2d Av
Aetna Life & Casualty (Life & Health Div) 200 SW Market St Suite 1650
Aetna Life & Casualty (Medicare Claims Ofc) 1500 SW 1st Av 6th Fl
Aetna Variable Annuity Co 1530 SW 2d Av
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Alexander & Alexander Inc 200 SW Market St Suite 690
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American General Life Insurance 2837 NE Broadway St
American Guarantee Co 1300 Commonwealth Bldg
American Guaranty Life Insurance Co 1435 SW 6th Av
American Hardware Mutual Insurance Co 333 SW 52d Av Rm 519
American Home Assurance Co 1 SW Columbia St Suite 655
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American Motorists Insurance Co 910 Yeon Bldg
American Mutual Life Insurance Co 4423 NE Tillamook St
American National Fire Insurance Co 206 Morgan Bldg
American National Insurance Co 6922 NE Glikan St
American Service Bureau 3038 E Burnside St
Amica Mutual Insurance Co 262 Pittcock Block
Anderson Chris Insurance Agency 7830 SW 40th Av Rm 7
Applied Insurance Management Inc 610 SW Alder St Rm 810
Argonaut Insurance Co 1700 SW 4th Av Suite 116
Arlington Insurance Agencies Inc 706 NE 2d Av
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Atlantic Insurance Co 1300 Commonwealth Bldg
Atlantic Mutual Insurance Co 1312 Commonwealth Bldg
Atlas Life Insurance Co (Ofc) 516 SE Morrison St Rm 400
Automated Insurance Associates Inc 700 NE Multnomah St Suite 1076
Azumano Geo I Insurance 400 SW 4th Av
B J Associates Inc 20 NE 10th Av
Bankers Life Insurance Co Des Moines Iowa 1221 SW Yamhill St Suite 303
BANKERS LIFE NEBRASKA 3800 SW Cedar Hills Blvd, Westgate Square, Suite 211 (Beaverton; 97005), Tel 643-6646, 5411 SW Macadam (Portland; 97201), Tel 224-6416 (See Index To Advertisers)
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Bankers Life The (Group Ofc) 200 SW Market St Suite 800
Bayly Martin & Fay Of Oregon Inc 5331 SW Macadam Av Rm 276
Beneficial Standard Life Insurance 1130 SW Morrison St Rm 315
Bennett Insurance Agency The 6637 N Greeley Av
Bernard J Insurance Agency 4147 SE Division St
Bernard-Perreault Insurance Agency 1606 SE Ankeny St
Berry Insurance Agency Inc 1431 NE Weidner St
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Boeve Ed Insurance 8505 SE Stark St
BOLLIGER & SONS INC 511 SE Belmont St
Tel 232-9141 (See Index To Advertisers)
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Briacoe & Assoc 200 SW Market St Suite 908
Bristol Henry C 707 SW Washington St Rm 600
Broderick Insurance 777 SE Sandy Blvd
Broderick Insurance Inc 6443 SW Beaverton Hwy Rm 200
Bronson Insurance Agency Inc 912 Oregon St Bldg
Brownridge Ray Agency 700 NE Multnomah St Suite 396
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Byrne Patk J 2075 SW 1st Av Suite 21
C A Wagner Co 7108 NE Glikan St
C I M Insurance Corp 1425 NE Irving St
C J N Insurance Services Inc 200 SW Market St Suite 1770
C N A Ins (Libby Property & Surety) 1425 NE Irving St
Alder St Rm 200
C N A Ins (Underwriting) 729 SW Alder St Suite 200
Cal-Western Life 500 NE Multnomah St Suite 200
Cal Western Life Insurance Co 1130 SW Morrison St Rm 522
California Pacific Customer C A R F Center 1130 Oregon Bk Bldg
Camden Fire Insurance Assn The 706 NE 2d Av
CAMPBELL GALT & NEWLANDS 1829 NE Broadway St
Washington St (97205), Tel 224-8334
CANADA LIFE ASSURANCE CO 1111 SE 6th Av, Suite 902 (97204), Tel 224-1111
Carlson A D & Associates 4255 NE Sandy Blvd
Caruso Insurance Agency 5049 NE Sandy Blvd
Centennial Insurance Co 1312 Commonwealth Bldg
Chubb Pacific Indemnity Group 700 NE Multnomah St Suite 500
City Insurance Co 1800 SW 1st Av Suite 500
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OWENS-CORNING FIBERGLAS
SUPPLY & CONTRACTING DIV
320 NW Hoyt—226-6781

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530 SE 81 Av—253-7553
MILWAUKIE LMBR CO
1146-21 (MO)—654-5417

Arrow Building Supply Inc.
8851 SE 13th—234-0695
BARTLETT E J CO.
See Our Advertisement Under
Insulation Contractors—Cold & Heat
524 N Tillamook—282-3291
Beaver Builders Supply Inc.
10075 SW Barbur Bv—244-1141
Buckaroo-Thermoseal Inc.
5410 NE 109th—254-5581

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Careytemp Pipe & Block
Insulation for surfaces
35° to 2000° F, pre-
molded Ells, Thermoglas
Pipe & Blanket, Asbestos Paper, Millboard,
Insulating Cements, Mineral Wool Blankets. In-
sulation applied and estimates furnished.
"WHERE TO BUY IT"
DEALERS
Pacific Asbestos
5716 NE Hassalo—282-3274

Castrow Otto Company
2648 N Intrstate Av—282-0997

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In Next Column

**Insulation Materials—Cold & Heat—
(Cont'd)**

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sulations for Res., Coml.,
& Indus. Constr. Blanket
& Board Insulations, Duct
Wrap & Liners. Fiber glass air duct systems.
CSG Snap-on Pipe coverings.
CSG

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DISTRIBUTORS
PACIFIC ASBESTOS
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935 SE Hawthorne Blvd—234-0701
Construction Components Inc.
6415 SW Canyon Ct—292-8828

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MANUFACTURERS
GRACE W R & CO
2303 N Harding—288-5195
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COAST INSULATION CO
8140 SE 72d—777-1191
INSULATION CONTRACTING CO
620 SE Lincoln—236-2532
SERVICE INSULATION CO
615 S 1st Hillsboro—648-0557

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SUPPLY & CONTRACTING DIV**
320 NW Hoyt—226-6781
PACIFIC ASBESTOS
5716 NE Hassalo—282-3274

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DISTRIBUTOR—CONTRACTORS
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524 N Tillamook—282-3291
GENERAL ENVIRONMENT PRODUCTS—
COCHRAN NORM CO
13303 NE Milton—255-3999
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Continued Next Column

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(Cont'd)**

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Continued Next Page

**Insulation Materials—Cold & Heat—
(Cont'd)**

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See "Aetna Life & Casualty"
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Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

March 22, 2000

EPA - Region 10
1200 Sixth Ave.
Seattle, WA 98101

Attn: Keven McDermott

Project Name: Vermiculite Expansion Plant
Project Number: Not Available
P. O. Number: Not Available

Lab/Cor Batch Number: 000206

Conditions Enclosed please find results for samples submitted to our laboratory on March 6, 2000. A list of samples received follows, with limitation or rejection criteria noted where applicable.

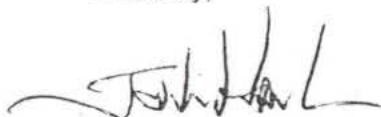
Lab/Cor Sample No.	Client Sample No.	Limitation/Rejection Criteria
000206-01	94200	No special conditions were noted
000206-02	94201	No special conditions were noted
000206-03	94202	No special conditions were noted

Method Preparation and analysis of the above samples was conducted in accordance with the EPA protocol EPA/600/R-93/116 for the identification of asbestos in bulk building materials. Briefly, each sample was taken from at least three randomly selected areas. The samples were weighed (*RawMaterialWeight*) on an analytical balance (0.1 milligram sensitivity), ashed in a low temperature plasma etcher to remove the organic component and weighed (*AfterAshWeight*). After a brief dissolution of the acid soluble component in concentrated hydrochloric acid, the suspension was immediately diluted in about 20 ml of 0.2 micron-filter, deionized water and filtered through a dry, pre-weighed 0.1 micron polycarbonate (PC) filter. After drying, the filter was weighed again (*AfterHydrolysisWeight*) and processed using EPA indirect method 68-02-3266. The samples were coated with a thin film of carbon in a vacuum evaporator. After dissolution of the filter debris in chloroform, the sample was placed on a 200 mesh copper TEM grid and examined under the TEM microscope. After confirmation of the principal mineral type by diffraction and EDS chemistry, a visual estimate of the concentration of asbestos relative to nonasbestos was determined.

Disclaimer This test report relates only to the items tested in this report. Interpretation of these results is the sole responsibility of the client. Results are subject to the variation in the layers of the sample, the accuracy of the balance, the visual estimate on the microscope as well as other variations within the procedure. Therefore, the values of the weight percentages may vary by as much as 10%.

If further clarification of these results is needed, please do not hesitate to call me. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with analytical services.

Sincerely,



John Harris
Laboratory Director

Attachment 10

Lab/Cor, Inc.
A Professional Service Corporation in the Northwest

Report Number: 000206

Report Date: March 22, 2000

Client Information	
<i>Project Name:</i>	Vermiculite Expansion Plant
<i>Project No.:</i>	Not Available
<i>P. O. No.:</i>	Not Available

Tracking Information		
<i>Login:</i>	Mar 6, 2000	By: DW
<i>Reviewed:</i>	Mar 22, 2000	By: JH
<i>Final Review:</i>	Mar 22, 2000	By: JH

Analysis Information	
<i>Sample Type:</i>	Bulk
<i>Analysis Type:</i>	Semi-Quantitative
<i>Reference No.:</i>	EPA/600/R-93/116

FINAL TABLE
Transmission Electron Microscopy – Semi-Quantitative – Bulk Sample Analysis

Lab/Cor Sample No.	Client Sample No.	Description	Asbestos Type	Weight Percent	Other Components	Weight Percent	Prepped By	Prep Date(s)	Analyst	Analysis Date
000206-01	94200	Dust from Rafter	Actinolite	0.95	Organics	9.30	DW	03/13/00	JH	03/21/00
			Tremolite	0.47	Acid Solubles	43.38				
			Total Asbestos	1.42	Other Nonasbestos	45.90				
000206-02	94201	Insulation on South Wall near Office	Chrysotile	1.90	Organics	3.07	DW	03/21/00	JH	03/21/00
			Actinolite	0.19	Acid Solubles	77.93				
			Total Asbestos	2.09	Other Nonasbestos	16.91				
000206-03	94202	Dust from West Wall Framing	Actinolite	0.39	Organics	79.67	DW	03/13/00	JH	03/21/00
			Tremolite	0.20	Acid Solubles	0.70				
			Total Asbestos	0.59	Other Nonasbestos	19.04				

Lab/Cor, Inc.*A Professional Service Corporation in the Northwest*

Report Number: 000206

Report Date: Mar 22, 2000

Client: EPA - Region 10

Lab/Cor Sample No.: 000206-01

Project Name: Vermiculite Expansion Plant

Analyst: JH

Sample No.: 94200

Analysis Date: Mar 21, 2000

Description: Dust from Rafter

TEM BULK ANALYSIS - RAW DATA

Description	Weight (grams)			Weight %
	Paper	Paper/Filter + Particulate	Particulate	
Raw Material	17.2474	17.2829	0.0355	
After Ashing	17.2474	17.2796	0.0322	9.30
After Hydrolysis	0.2351	0.2423	0.0042	43.38

QUALITATIVE INSPECTION

Description	Visual Estimate %	Total %
Normalized Particulate Factor	0.00	
Microscopic Inspection:		
[% Chrysotile]	*ND	ND
[% Actinolite]	2.00	0.95
[% Anthophyllite]	ND	ND
[% Crocidolite]	ND	ND
[% Grunerite]	ND	ND
[% Tremolite]	1.00	0.47
[% Nonasbestos]	ND	45.90

*ND = None Detected

$$\frac{\text{RawMaterialWeight} - \text{AfterAshWeight}}{\text{RawMaterialWeight}} \times 100 = \text{OrganicsWeight\%}$$

$$\frac{\text{AfterAshWeight} - \text{AfterHydrolysisWeight}}{\text{RawMaterialWeight}} \times 100 = \text{AcidSolublesWeight\%}$$

Lab/Cor, Inc.*A Professional Service Corporation in the Northwest*

Report Number: 000206

Report Date: Mar 22, 2000

Client: EPA - Region 10

Lab/Cor Sample No.: 000206-02

Project Name: Vermiculite Expansion Plant

Analyst: JH

Sample No.: 94201

Analysis Date: Mar 21, 2000

Description: Insulation on South Wall near Office

TEM BULK ANALYSIS - RAW DATA

Description	Weight (grams)			Weight %
	Paper	Paper/Filter + Particulate	Particulate	
Raw Material	17.2013	17.2371	0.0358	
After Ashing	17.2013	17.2360	0.0347	3.07
After Hydrolysis	0.2351	0.2398	0.0017	77.93

QUALITATIVE INSPECTION

Description	Visual Estimate %	Total %
Normalized Particulate Factor	0.00	
Microscopic Inspection:		
[% Chrysotile]	10.00	1.90
[% Actinolite]	1.00	0.19
[% Anthophyllite]	*ND	ND
[% Crocidolite]	ND	ND
[% Grunerite]	ND	ND
[% Tremolite]	ND	ND
[% Nonasbestos]	ND	16.91

*ND = None Detected

$$\frac{\text{RawMaterialWeight} - \text{AfterAshWeight}}{\text{RawMaterialWeight}} \times 100 = \text{OrganicsWeight\%}$$

$$\frac{\text{AfterAshWeight} - \text{AfterHydrolysisWeight}}{\text{RawMaterialWeight}} \times 100 = \text{AcidSolublesWeight\%}$$

Lab/Cor, Inc.*A Professional Service Corporation in the Northwest*

Report Number: 000206

Report Date: Mar 22, 2000

Client: EPA - Region 10

Lab/Cor Sample No.: 000206-03

Project Name: Vermiculite Expansion Plant

Analyst: JH

Sample No.: 94202

Analysis Date: Mar 21, 2000

Description: Dust from West Wall Framing

TEM BULK ANALYSIS – RAW DATA

Description	Weight (grams)			Weight %
	Paper	Paper/Filter + Particulate	Particulate	
Raw Material	17.5249	17.5677	0.0428	
After Ashing	17.5249	17.5336	0.0087	79.67
After Hydrolysis	0.2351	0.2402	0.0021	0.70

QUALITATIVE INSPECTION

Description	Visual Estimate %	Total %
Normalized Particulate Factor	0.00	
Microscopic Inspection:		
[% Chrysotile]	*ND	ND
[% Actinolite]	2.00	0.39
[% Anthophyllite]	ND	ND
[% Crocidolite]	ND	ND
[% Grunerite]	ND	ND
[% Tremolite]	1.00	0.20
[% Nonasbestos]	ND	19.04

*ND = None Detected

$$\frac{\text{RawMaterialWeight} - \text{AfterAshWeight}}{\text{RawMaterialWeight}} \times 100 = \text{OrganicsWeight\%}$$

$$\frac{\text{AfterAshWeight} - \text{AfterHydrolysisWeight}}{\text{RawMaterialWeight}} \times 100 = \text{AcidSolublesWeight\%}$$

Manchester Environmental Laboratory

Combined Final Report for Project HWD-174A

Project Code: HWD-174A
Project Name: VERMICULITE EXPANSION PLANT -
Project Officer: JED JANUCH
Account Code: 00T10P50102D10ZZLA00
Station Description: DUST FROM RAFTER

Collected: 3/ 2/00
Matrix: Solid
Sample Number: 00094200
Type: Reg sample

	Result	Units	Qlfr
GEN			
Parameter :	Bulk Asbestos Analysis		
Method :			
Prep Method:			
Analytes :	*200009	Actinolite	UND
	*200006	Amosite	UND
	*200007	Anthophyllite	UND
	*200013	Cellulose	PNQ
	*200005	Chrysotile	UND
	*200010	Crocidolite	UND
	*200011	Glass Fiber	UND
	*200012	Mineral Wool	UND
	*200008	Tremolite	UND

Manchester Environmental Laboratory

Combined Final Report for Project HWD-174A

Project Code: HWD-174A
Project Name: VERMICULITE EXPANSION PLANT -
Project Officer: JED JANUCH
Account Code: 00T10P50102D10ZZLA00
Station Description: INSULATION ON SOUTH WALL NEAR OFFICE

Collected: 3/ 2/00
Matrix: Solid
Sample Number: 00094201
Type: Reg sample

		Result	Units	Qlfr
GEN				
Parameter	Bulk Asbestos Analysis			
Method				
Prep Method:				
Analytes	*200009	Actinolite		UND
	*200006	Amosite		UND
	*200007	Anthophyllite		UND
	*200013	Cellulose		UND
	*200005	Chrysotile	10-15%	
	*200010	Crocidolite		UND
	*200011	Glass Fiber		UND
	*200012	Mineral Wool		UND
	*200008	Tremolite		UND

5:54:00
10:27:49

Manchester Environmental Laboratory
Combined Final Report for Project HWD-174A

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Project Code: HWD-174A
Project Name: VERMICULITE EXPANSION PLANT -
Project Officer: JED JANUCH
Account Code: 00T10P50102D10ZZLA00
Station Description: DUST FROM WEST WALL FRAMING

Collected: 3/ 2/00
Matrix: Solid
Sample Number: 00094202
Type: Reg sample

		Result	Units	Qlfr
GEN				
Parameter	: Bulk Asbestos Analysis			
Method	:			
Prep Method:				
Analytes	: *200009	Actinolite		UND
	*200006	Amosite		UND
	*200007	Anthophyllite		UND
	*200013	Cellulose		PNQ
	*200005	Chrysotile		UND
	*200010	Crocidolite		UND
	*200011	Glass Fiber		UND
	*200012	Mineral Wool		UND
	*200008	Tremolite		UND